

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S
VGN-A130/A130B/A130P/A170/A170B/A170P/A190
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP

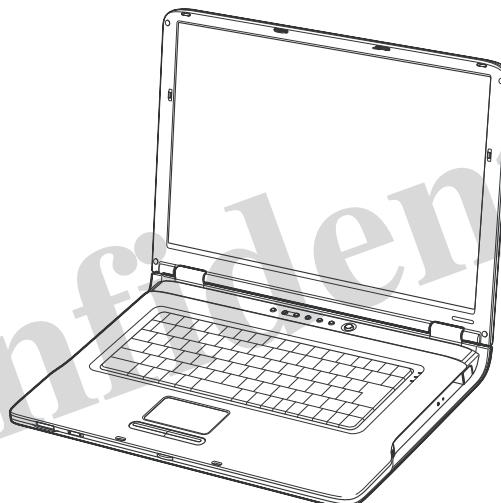
SERVICE MANUAL

Ver 7-2004L

Revision History

Area	Model	Line up
Japanese	Japanese	VGN-A50B VGN-A60B VGN-A60PS* VGN-A60S* VGN-A70P VGN-A70PS* VGN-A70S*
American	US Canadian	VGN-A130* VGN-A130B* VGN-A130P* VGN-A170* VGN-A170B* VGN-A170P* VGN-A190
European	AEP UK	VGN-A115B VGN-A115S VGN-A117S VGN-A195EP VGN-A195HP VGN-A197VP VGN-A197XP
Asian/Oceania/ South Africa	International	VGN-A15GP VGN-A17GP
	Thai	VGN-A17SP
	Korean	VGN-A15LP VGN-A17LP
	China	VGN-A11C VGN-A13CP VGN-A15CP VGN-A19CP
	Taiwan	VGN-A17TP

*: CTO Model



Illust : VGN-A70P



- Design and specifications are subject to change without notice.
- 本機の仕様および外観は、改良のため予告なく変更することがあります、ご了承ください。

PERSONAL COMPUTER

SONY®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners.
In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.
Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)

VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
CHAPTER 1. SPECIFICATIONS					
1-1.	SPECIFICATIONS	1-1			
1-2.	CTO Information	1-2			
1.	VGN-A60S*	1-2			
2.	VGN-A60PS*	1-2			
3.	VGN-A70S*	1-3			
4.	VGN-A70PS*	1-3			
5.	VGN-A130*	1-4			
6.	VGN-A130P*	1-4			
7.	VGN-A170*	1-5			
8.	VGN-A170P*	1-5			
9.	VGN-A130B*	1-6			
10.	VGN-A170B*	1-6			
(to 1-6)					
CHAPTER 2. BLOCK DIAGRAM					
2-1.	VGN-A series	2-1			
2-2.	Port Replicator (VGP-PRAV1)	2-2			
(to 2-2)					
CHAPTER 3. FRAME HARNESS DIAGRAM					
3-1.	VGN-A series	3-1			
3-2.	Port Replicator (VGP-PRAV1)	3-2			
(to 3-2)					
CHAPTER 4. EXPLODED VIEWS AND PARTS LIST					
Palmrest					
P-1.	Palmrest (17-inch Model)	4-2			
P-2.	Palmrest (15-inch Model)	4-4			
Main Board					
M-1.	Main Board (17-inch Model)	4-6			
M-2.	Main Board (15-inch Model)	4-8			
Bottom					
B-1.	Bottom (17-inch Model)	4-10			
B-2.	Bottom (15-inch Model)	4-12			
Optical Drive					
D-1.	Optical Drive (17-inch Model)	4-14			
D-2.	Optical Drive (15-inch Model)	4-16			
LCD					
L-1.	LCD 17-inch WUXGA (Clear Black LCD) – Made by SH –	4-18			
L-2.	LCD 15-inch SXGA+ (Clear Black LCD) – Made by SH –	4-20			
L-3.	LCD 15-inch XGA (Normal, High Brightness) – Made by AU –	4-22			
Accessories					
A-1	4-24			
A-2	4-25			
DIP Switch	4-27			
(to 4-27)					
CHAPTER 5. OTHERS					
5-1.	The Barcode Label	5-1			
5-2.	Replacing the CPU	5-2			
1.	Removing the CPU	5-2			
2.	Installing the CPU	5-2			
(to 5-2)					
<p>History of the changes is shown as the "Revision History" at the end of this data.</p>					
<p>変更履歴は、"Revision History"として、本データ末に記載しております。</p>					

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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

CHAPTER 1. SPECIFICATIONS

1-1. Specifications

	J	J-CTO(15)	J-CTO(17)	AM	U-CTO(15)	U-CTO(17)		
	A70P	A60B	A50B	A60S/A60PS*	A70S/A70PS*	A190	A130/A130B/A130P*	A170/A170B/A170P*
CPU	Pentium-M 1.7A(D)	Pentium-M 1.5(B)	Pentium-M 1.5(B)	"1)	"3)	Pentium-M 1.7A(D)	"4)	"4)
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	Mobility Radeon 9700	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9700	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9700
LCD	17" WUXGA (Clear Black)	15" SXGA+ (Clear Black)	15" SXGA+ (Clear Black)	17" WUXGA (Clear Black)	17" WUXGA (Clear Black)	15" SXGA+(Clear Black)	15" XGA (Clear Black)	17" WUXGA (Clear Black)
HDD	80GB(5400rpm)	60GB	60GB	80GB(5400rpm)/ 60GB(40GB)	80GB(5400rpm)/ 60GB(40GB)	80GB	80GB(5400rpm)/ 60GB(40GB)	80GB(5400rpm)/ 60GB(40GB)
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW
MEMORY	512MB*1	512MB*1	512MB*1	"2)	512MB*1/512MB*2 1024MB*2	256MB*2	"5)	"5)
QUANTITY(STANDARD/MAX)	512MB/2GB	512MB/2GB	512MB/2GB	-	512MB/2GB	-	-	-
Wireless LAN	a/b/g	b/g	b/g	b/g / -	a/b/g / -	b/g	b/g / -	b/g
Bluetooth	X	X	X	X	O/X	X	O	O
AC adaptor	AC19V7	AC19V7	AC19V3	AC19V3/AC19V7	AC19V7	AC19V3/AC19V7	AC19V3/AC19V7	AC19V3/AC19V7
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
AV PR	O	O	X	O/X	O/X	O	O/X	O/X
W-Mouse	O	O	X	X	O/X	X	O/X	O/X
Memory card adapter	O	O	O	O	O	X	O/X	O/X
Remote Controller	O	O	X	O/X	O/X	O	O/X	O/X
OS	XP pro	XP Home	XP Home	XP Pro/XP Home	XP Pro/XP Home	XP Home	XP Pro/XP Pro(SMB)/XP Home	XP Pro/XP Pro(SMB)/XP Home

*1) Mobile Cel 1.3(B),Pentium-M 1.5(B),Pentium-M 1.7A(D),Pentium-M 1.8(D) △[MA] - □[MA]

*4)Mobile Cel 1.4(B),Pentium-M 1.5(B),Pentium-M 1.5(A),Pentium-M 1.7(A),Pentium-M 1.8(D),Pentium-M 2.0(D)

*2) 256MB*1,512MB*1,512MB*2,1024MB*2

*5) 256MB*1,256MB*2,512MB*2,512MB*2,1024MB*1,1024MB*2 △[MA] □[MA] △[MA] △[MA] △[MA]

*3) Pentium-M 1.5(B),Pentium-M 1.7A(D),Pentium-M 1.8(D)

	EU						
	A197XP	A117S	A197VP	A115S	A195HP	A115B	A195EP
CPU	Pentium-M 1.8(D)	Pentium-M 1.7A(D)	Pentium-M 1.7A(D)	Pentium-M 1.6(B)	Pentium-M 1.6(B)	Pentium-M 1.5(B)	Pentium-M 1.5(B)
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	Mobility Radeon 9700	Mobility Radeon 9700	Mobility Radeon 9700	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000
LCD	17" WUXGA (Clear Black)	17" WUXGA (Clear Black)	17" WUXGA (Clear Black)	15" XGA (High Brightness)	15" XGA (High Brightness)	15" XGA (High Brightness)	15" XGA
HDD	80GB	80GB	80GB	60GB	60GB	60GB	60GB
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	Combo
MEMORY	512MB*2	256MB*2	256MB*2	256MB*2	256MB*2	256MB*2	256MB*2
QUANTITY(STANDARD/MAX)	1G/2G	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
Wireless LAN	b/g	b/g	b/g	b/g	b/g	b/g	b/g
Bluetooth	O	O	O	O	O	X	X
AC adaptor	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
AV PR	X	X	X	X	X	X	X
W-Mouse	O	X	X	X	X	X	X
Memory card adapter	X	X	X	X	X	X	X
Remote Controller	X	X	X	X	X	X	X
OS	XP Pro	XP Home	XP Pro	XP Home	XP Pro	XP Home	XP Pro

△[MA]

△[MA]

△[MA]

	AO									
	A17GP	A15GP	A17LP	A15LP	A17SP	A17TP	A19CP	A15CP	A13CP	A11C
CPU	Pentium-M 1.6(B)	Pentium-M 1.5(B)	Pentium-M 1.6(B)	Pentium-M 1.5(B)	Pentium-M 1.6(B)	Pentium-M 1.6(B)	Pentium-M 1.6(B)	Pentium-M 1.6(B)	Pentium-M 1.6(B)	Pentium-M 1.5(B)
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	Mobility Radeon 9700	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9700	Mobility Radeon 9000	Mobility Radeon 9000	Mobility Radeon 9000
LCD	15" SXGA+ (Clear Black)	15" XGA	15" SXGA+ (Clear Black)	15" XGA	15" SXGA+ (Clear Black)	15" SXGA+ (Clear Black)	17" WUXGA (Clear Black)	15" SXGA+ (Clear Black)	15" XGA	15" XGA
HDD	60GB	40GB	60GB	40GB	60GB	60GB	60GB	40GB	40GB	40GB
OPT-DRIVE	DVD+/-RW	Combo	DVD+/-RW	Combo	DVD+/-RW	DVD+/-RW	DVD+/-RW	Combo	Combo	Combo
MEMORY	512MB*1	512MB*1	512MB*1	512MB*1	512MB*1	512MB*1	512MB*1	512MB*1	256MB*1	256MB DDR333
QUANTITY(STANDARD/MAX)	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	256MB/2GB	256MB/2GB
Wireless LAN	b/g	b/g	b/g	b/g	b/g	b/g	-	-	-	-
Bluetooth	X	X	X	X	X	X	X	X	X	X
AC adaptor	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
AV PR	X	X	X	X	X	X	X	X	X	X
W-Mouse	X	X	X	X	X	X	O	X	X	X
Memory card adapter	X	X	X	X	X	X	X	X	X	X
Remote Controller	X	X	X	X	X	X	X	X	X	X
OS	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Home

△[MA]

- The trademarks or registered trademarks of above table, refer to page 2.
- The model that is accompanied by asterisk (*) is the CTO model
- For the equipment configuration, refer to the CTO Information.
- 本表中の商標・登録商標については、2ページをご参照ください。
- 機種名に(*)がつくのは CTO モデルです。
- 組み合わせについては、CTO Information ご確認ください。

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VGN-A50B/A60B/A60PS/A60S/A70P/A70S/A70 (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A179VP/A179XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17LP/A17SP/A17TP/A19CP (AO)

1-2. CTO Information

1. VGN-A60S*

Model name : VGN-A60S(Japanese Area)
 Model Number:VGN-8Q8N(With W-LAN),8Q9N(Without W-LAN)

OS:WindowsXP Home

Ver.1.0

LCD	15 SXGA+(Clear Black) A-1062-139-A LCD UNIT(2CFL 15SXGA+-SH)(S)
CPU	Mobile Cel 1.3(B) 6-600-334-01 IC RH80535NC013512SL6N7
Memory	2GB(1024Mb×2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB,HTS548080M9AT00)(S)
Optical	DVD+RW 8-457-575-40 DRIVE,DVD DW-U54A-VS/T
TV TUNER (PortReplicator)	VGP-PRAV1
W-LAN	802.11b/g 1-761-864-22 WIRELESS LAN CARD
Bluetooth	None
W-MOUSE	None
Memory Card Adapter	VGP-MCA10
Remote Controller	RM-VC10 1-478-688-11 REMOTE COMMANDER (RM-VC10)

2. VGN-A60PS*

Model name : VGN-A60PS(Japanese Area)
 Model Number:VGN-8Q8N(With W-LAN),8Q9N(Without W-LAN)

OS:WindowsXP Pro

Ver.1.0

LCD	15 SXGA+(Clear Black) A-1062-139-A LCD UNIT(2CFL 15SXGA+-SH)(S)
CPU	Mobile Cel 1.3(B) 6-600-334-01 IC RH80535NC013512SL6N7
Memory	2GB(1024Mb×2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB,HTS548080M9AT00)(S)
Optical	DVD+RW 8-457-575-40 DRIVE,DVD DW-U54A-VS/T
TV TUNER (PortReplicator)	VGP-PRAV1
W-LAN	802.11b/g 1-761-864-22 WIRELESS LAN CARD
Bluetooth	None
W-MOUSE	None
Memory Card Adapter	VGP-MCA10
Remote Controller	RM-VC10 1-478-688-11 REMOTE COMMANDER (RM-VC10)

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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
 VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
 VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
 VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

3. VGN-A70S*

Model name : VGN-A70S(Japanese Area)
 Model Number:VGN-8Q1N(With W-LAN),8Q3N(Without W-LAN)
 OS:WindowsXP Pro
 Ver.1.0

LCD	17WXGA(Clear Black) A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M	Pentium-M 1.8(D) 6-600-306-01 IC RH80536GC0332M(P-M1.8)
Memory	2GB(128MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB,HTS548080M9AT00)(S)	60GB A-8111-360-A ASSY HDD 60GB(T.30)(S)	40GB A-1062-141-A HDD (MHT2040AT-40GB-A)(S)	
Optical	DVD+RW 8-457-575-40 DRIVE/DVD DW-U54A-V/S/T			
TV TUNER (PortReplicator)	VGP-PRAV1		None	
W-LAN	802.11a/b/g 1-761-891-11 WIRELESS LAN CARD		None	
Bluetooth	BLUETOOTH 1-805-554-11 BLUETOOTH MODULE		None	
W-Mouse	Wireless Mouse 1-796-624-31 MOUSE (SLV)		None	
Memory Card Adapter	VGP-MCA10			
Remote Controller	RM-VC10 1-476-688-11 REMOTE COMMANDER (RM-VC10)		None	

4. VGN-A70PS*

Model name : VGN-A70PS(Japanese Area)
 Model Number:VGN-8Q1N(With W-LAN),8Q3N(Without W-LAN)
 OS:WindowsXP Pro
 Ver.1.0

LCD	17WXGA(Clear Black) A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M	Pentium-M 1.8(D) 6-600-306-01 IC RH80536GC0332M(P-M1.8)
Memory	2GB(128MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB,HTS548080M9AT00)(S)	60GB A-8111-360-A ASSY HDD 60GB(T.30)(S)	40GB A-1062-141-A HDD (MHT2040AT-40GB-A)(S)	
Optical	DVD+RW 8-457-575-40 DRIVE/DVD DW-U54A-V/S/T			
TV TUNER (PortReplicator)	VGP-PRAV1		None	
W-LAN	802.11a/b/g 1-761-891-11 WIRELESS LAN CARD		None	
Bluetooth	BLUETOOTH 1-805-554-11 BLUETOOTH MODULE		None	
W-Mouse	Wireless Mouse 1-796-624-31 MOUSE (SLV)		None	
Memory Card Adapter	VGP-MCA10			
Remote Controller	RM-VC10 1-476-688-11 REMOTE COMMANDER (RM-VC10)		None	

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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
 VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
 VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
 VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

△[MA]

5. VGN-A130*

Model name : VGN-A130(American Area)

OS:WindowsXP Home

Ver.1.0

LCD	15" SXGA+(Clear Black) A-1062-139-A LCD UNIT(2CFL-1SXGA+SH)(S)	15" XGA A-8115-791-A ASSY LCD 15XGA(AU)(S)	Pentium-M 1.4(B) 6-706-572-01 IC RH80536NC017512SL6N6	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.5A(D) 6-600-368-01 IC RH80536GC0212M	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M	Pentium-M 1.8(D) 6-600-306-01 IC RH80536GC0332MP-M1.8	Pentium-M 2.0(D) 6-706-559-01 IC RH80536GC0412MSL7EM
CPU								
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(1024MBx1) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)			1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx2) 6-705-064-01 IC HYS64D32020HDL-6-C(256MB)	256MB(256MBx1) 6-705-064-01 IC HYS64D32020HDL-6-C(256MB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB) HTS548080M9AT00(S)	80GB A-8117-058-A ASSY HDD 80GB(H.40)(S)			60GB A-8116-402-A ASSY HDD 60GB(I.40)(S)	40GB A-8117-059-A ASSY HDD 40GB(H.40)(S)		
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T	Combo 8-457-270-10 RW DRIVE CRX830E-VN						
TV TUNER (PortReplicator)	VGP-PRAV1							
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD							
Bluetooth								
W-MOUSE								
Memory Card Adptor	VGP-MCA10							
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U							

6. VGN-A130P*

Model name : VGN-A130P(American Area)

OS:WindowsXP Pro

Ver.1.0

LCD	15" SXGA+(Clear Black) A-1062-139-A LCD UNIT(2CFL-1SXGA+SH)(S)	15" XGA A-8115-791-A ASSY LCD 15XGA(AU)(S)	Pentium-M 1.4(B) 6-706-572-01 IC RH80536NC017512SL6N6	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.5A(D) 6-600-368-01 IC RH80536GC0212M	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M	Pentium-M 1.8(D) 6-600-306-01 IC RH80536GC0332MP-M1.8	Pentium-M 2.0(D) 6-706-559-01 IC RH80536GC0412MSL7EM
CPU								
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(1024MBx1) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)			1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx2) 6-705-064-01 IC HYS64D32020HDL-6-C(256MB)	256MB(256MBx1) 6-705-064-01 IC HYS64D32020HDL-6-C(256MB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB) HTS548080M9AT00(S)	80GB A-8117-058-A ASSY HDD 80GB(H.40)(S)			60GB A-8116-402-A ASSY HDD 60GB(I.40)(S)	40GB A-8117-059-A ASSY HDD 40GB(H.40)(S)		
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T	Combo 8-457-270-10 RW DRIVE CRX830E-VN						
TV TUNER (PortReplicator)	VGP-PRAV1							
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD							
Bluetooth								
W-MOUSE								
Memory Card Adptor	VGP-MCA10							
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U							

Confidential

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

▲ [MA]

7. VGN-A170*

Model name : VGN-A170(American Area)

OS:WindowsXP Home

Ver.1.0

LCD	17 WUXGA(Clear Black) A-1062-138-A LCD UNIT (2CFL-17WUXGA)(S)
CPU	Mobile Cel 1.4(B) 6-706-572-01 IC RH80535NC017512SL6N6
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB HTS548080M9AT00)(S)
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T
TV TUNER (PortReplicator)	VGP-PRAV1
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD
Bluetooth	BLUETOOTH 1-805-554-11 BLUETOOTH MODULE
W-MOUSE	Wireless Mouse 1-796-624-31 MOUSE (SLV)
Memory Card Adapter	VGP-MCA10
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U

8. VGN-A170P*

Model name : VGN-A170P(American Area)

OS:WindowsXP Pro

Ver.1.0

LCD	17 WUXGA(Clear Black) A-1062-138-A LCD UNIT (2CFL-17WUXGA)(S)
CPU	Mobile Cel 1.4(B) 6-706-572-01 IC RH80535NC017512SL6N6
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB HTS548080M9AT00)(S)
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T
TV TUNER (PortReplicator)	VGP-PRAV1
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD
Bluetooth	BLUETOOTH 1-805-554-11 BLUETOOTH MODULE
W-MOUSE	Wireless Mouse 1-796-624-31 MOUSE (SLV)
Memory Card Adapter	VGP-MCA10
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U

Confidential

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)

VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

④ [MA]

9. VGN-A130B*

Model name : VGN-A130B(American Area)

OS:WindowsXP Pro(SMB)

Ver.1.0

LCD	15" SXGA+(Clear Black) A-1062-139-A LCD UNIT(2CFL-15SXGA+-SH)(S)	15" XGA A-8115-791-A ASSEMBLY LCD 15XGA(AU)(S)		
CPU	Mobile Cel 1.4(B) 6-706-572-01 IC RH80535NC017512SL6N6	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.5A(D) 6-600-368-01 IC RH80536GC0212M	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(1024MBx1) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB HTS548080M9AT00)(S)	80GB A-8117-058-A ASSY HDD 80GB(H.40)(S)	60GB A-8116-402-A ASSY HDD 60GB(H.40)(S)	40GB A-8117-059-A ASSY HDD 40GB(H.40)(S)
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T	Combo 8-457-270-10 RW DRIVE CRX830E-VN		
TV TUNER (PortReplicator)	VGP-PRAV1	None		
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD	None		
Bluetooth	None			
W-MOUSE	None			
Memory Card Adapter	VGP-MCA10	None		
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U	None		

10. VGN-A170B*

Model name : VGN-A170B(American Area)

OS:WindowsXP Pro(SMB)

Ver.1.0

LCD	17" WXGA(Clear Black) A-1062-138-A LCD UNIT (2CFL-17WXGA)(S)			
CPU	Mobile Cel 1.4(B) 6-706-572-01 IC RH80535NC017512SL6N6	Pentium-M 1.5(B) 6-600-304-01 IC RH80535GC0211MSL6F9	Pentium-M 1.5A(D) 6-600-368-01 IC RH80536GC0212M	Pentium-M 1.7A(D) 6-600-343-01 IC RH80536GC0292M
Memory	2GB(1024MBx2) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(1024MBx1) 6-706-244-01 IC EBD11UD8ADDA-6B(1GB)	1GB(512MBx2) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)	512MB(512MBx1) 6-705-847-01 IC HYS64D64020GBDL-6-C(512MB)
HDD	80GB(5400rpm) A-1062-140-A HDD (80GB HTS548080M9AT00)(S)	80GB A-8117-058-A ASSY HDD 80GB(H.40)(S)	60GB A-8116-402-A ASSY HDD 60GB(H.40)(S)	40GB A-8117-059-A ASSY HDD 40GB(H.40)(S)
Optical	DVD+RW 8-457-575-40 DRIVE, DVD DW-U54A-VS/T	Combo 8-457-270-10 RW DRIVE CRX830E-VN		
TV TUNER (PortReplicator)	VGP-PRAV1	None		
W-LAN	802.11b/g 1-761-864-12 WIRELESS LAN CARD			
Bluetooth	BLUETOOTH 1-805-554-11 BLUETOOTH MODULE			
W-MOUSE	Wireless Mouse 1-796-824-31 MOUSE (SLV)	None		
Memory Card Adapter	VGP-MCA10	None		
Remote Controller	RM-GP5U 1-478-300-21 IR COMMANDER RM-GP5U	None		

Confidential

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

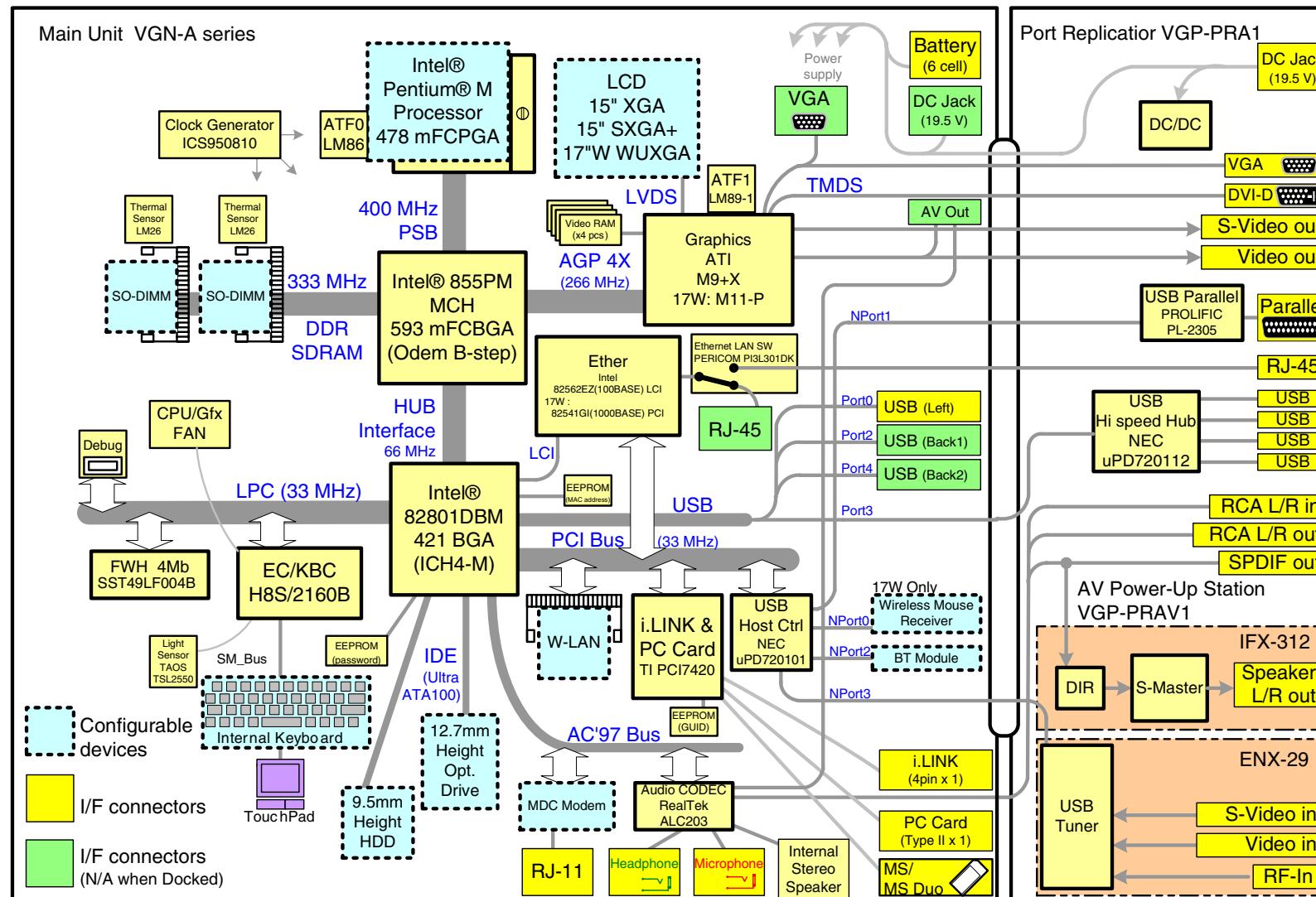
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)

VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

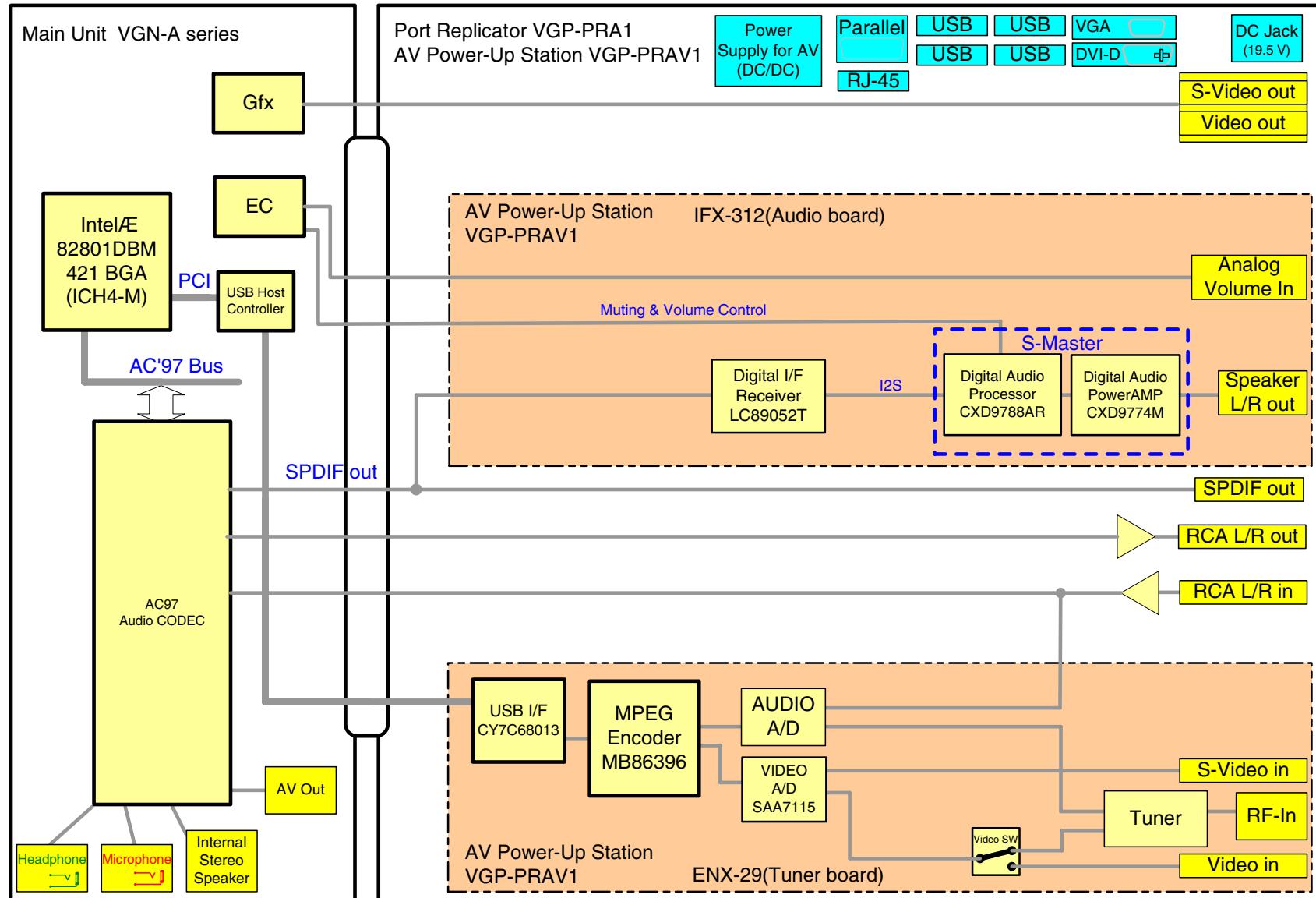
CHAPTER 2.

BLOCK DIAGRAM

2-1. VGN-A series



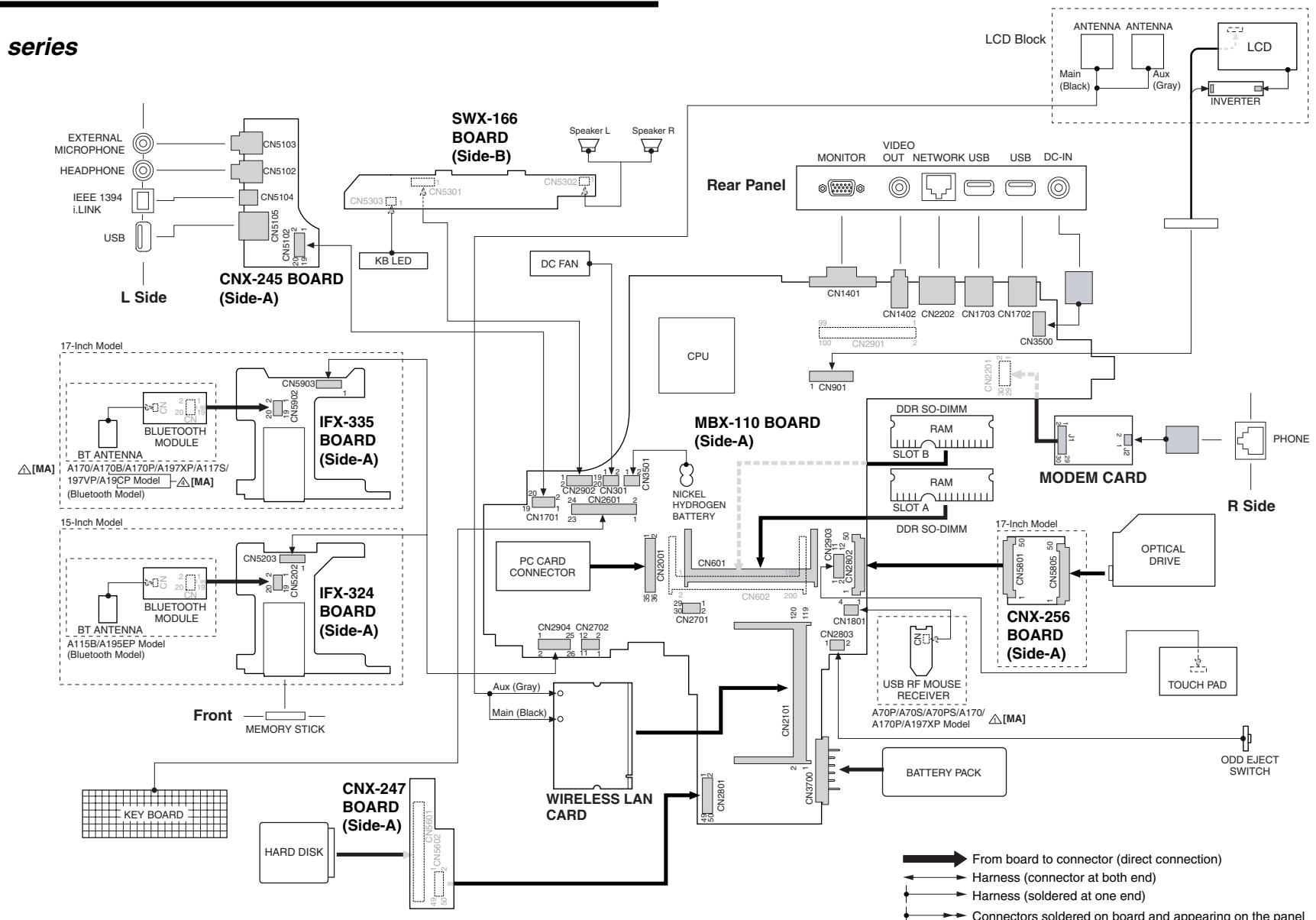
2-2. Port Replicator (VGP-PRAV1)



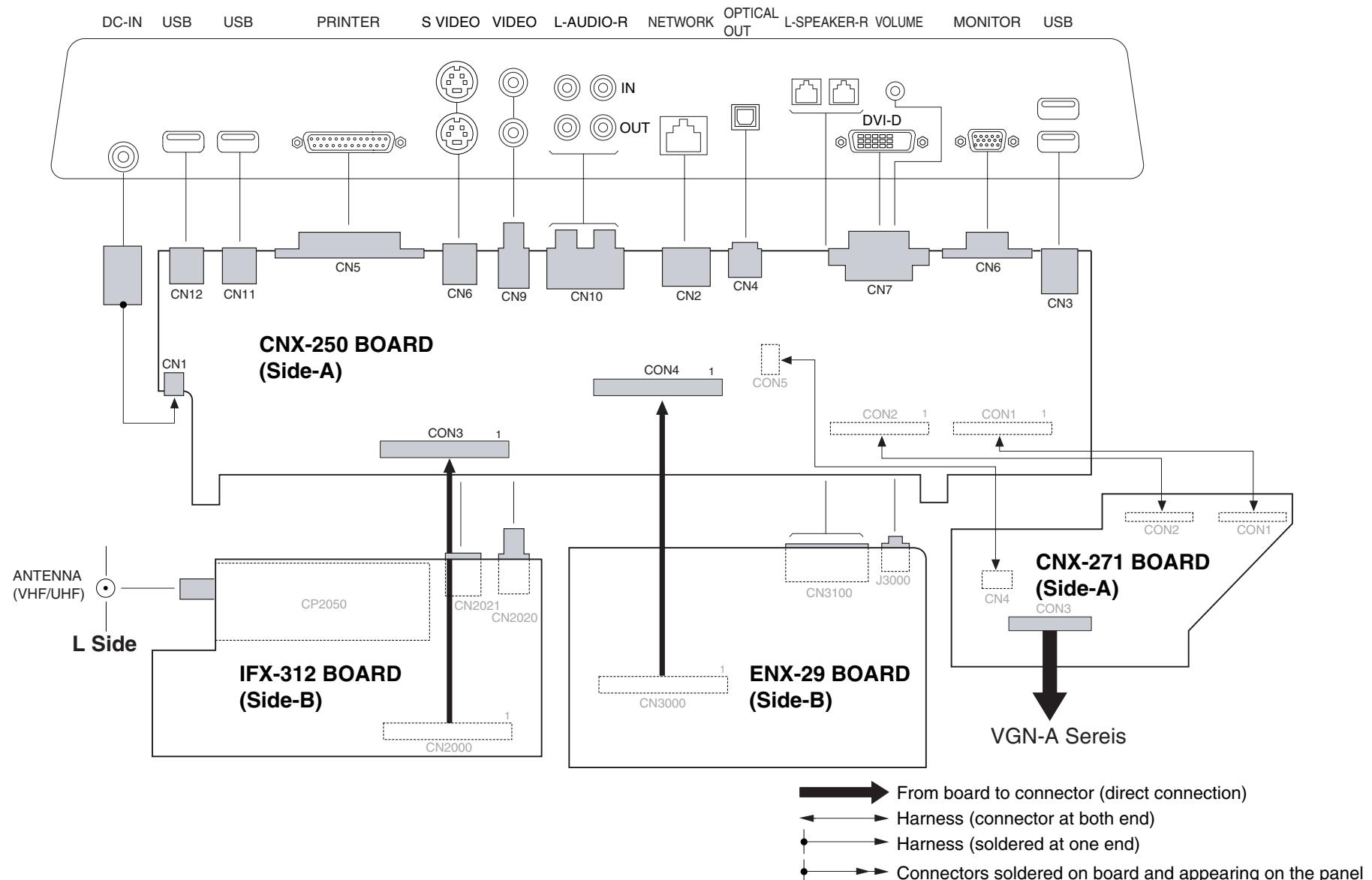
CHAPTER 3.

FRAME HARNESS DIAGRAM

3-1. VGN-A series



3-2. Port Replicator (VGP-PRAV1)



CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section	Page
Palmrest	
P-1. Palmrest (17-inch Model)	4-2
P-2. Palmrest (15-inch Model)	4-4
Main Board	
M-1. Main Board (17-inch Model)	4-6
M-2. Main Board (15-inch Model)	4-8
Bottom	
B-1. Bottom (17-inch Model)	4-10
B-2. Bottom (15-inch Model)	4-12
Optical Drive	
D-1. Optical Drive (17-inch Model)	4-14
D-2. Optical Drive (15-inch Model)	4-16

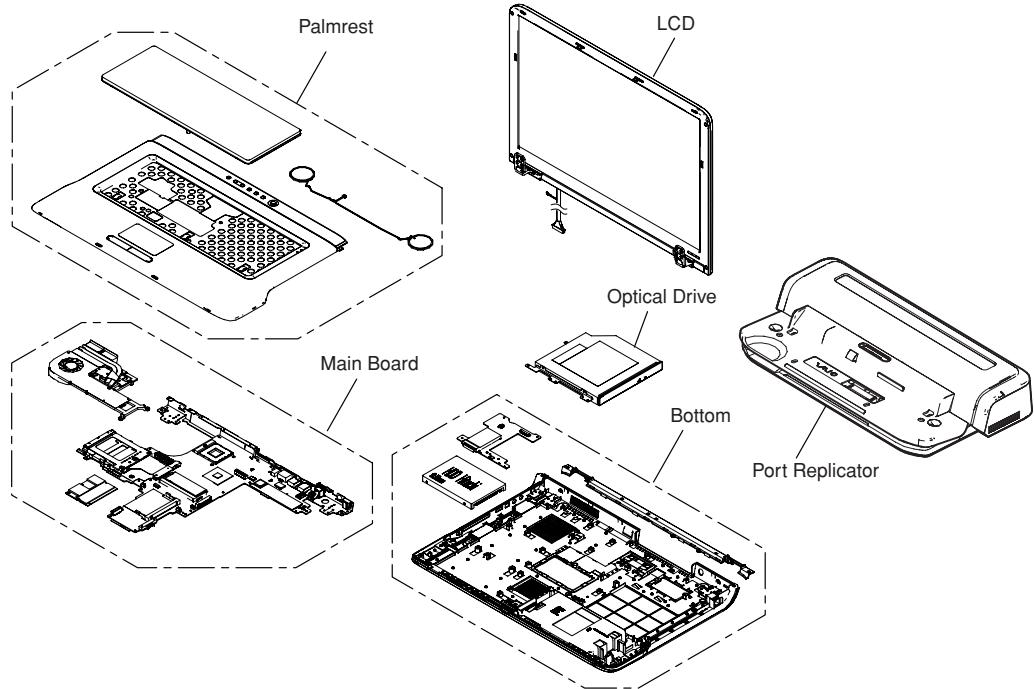
NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked “\$” are the High Value Modules (HVM).
- The parts marked “#” are the parts on which barcode label is attached.
For the barcode label, refer to CHAPTER 5.
- The parts marked “&” are the “Customer Replaceable Parts (CRP)” that can be replaced by Field Customer Support. Especially the parts with the <> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts(CRP), or the non-targetted parts by referring to the exploded view.
- Regarding the boards of this model, the discrete parts on the boards cannot be replaced. However, Some connectors can be replaced.
- The model that is accompanied by asterisk (*) is the CTO model.
For the equipment configuration, refer to the CTO Information.

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section	Page
LCD	
L-1. LCD 17-inch WUXGA (Clear Black LCD) – Made by SH –	4-18
L-2. LCD 15-inch SXGA+ (Clear Black LCD) – Made by SH –	4-20
L-3. LCD 15-inch XGA (Normal, High Brightness) – Made by AU –	4-22
Accessories	
A-1	4-24
A-2	4-25
DIP Switch	4-27



【使用上の注意】

- * 印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- 部品名称の前に \$ 印のついた部品は、High Value Module (HVM)です。
- 商品名称の前に # 印のついた部品は、バーコードラベル貼付部品です。
バーコードラベルについてはCHAPTER5を参照してください。
- 部品名称の前に & 印のついた部品は、お客様窓口などでも交換可能な Customer Replaceable Parts (CRP)です。
特に<>印のついた部品は、使い分けが必要な部品ですので、分解図で Customer Replaceable Parts 対象部品か、対象外部品かを必ず御確認ください。
- 本モデルの基板については、基板上の各部品の修理は行うことができません。ただし、一部のコネクタについては、修理可能です。
- 機種名に(*)がつくのは CTO モデルです。
組み合わせについては、CTO Informationを御確認ください。

Δ 印の部品、または Δ 印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用してください。

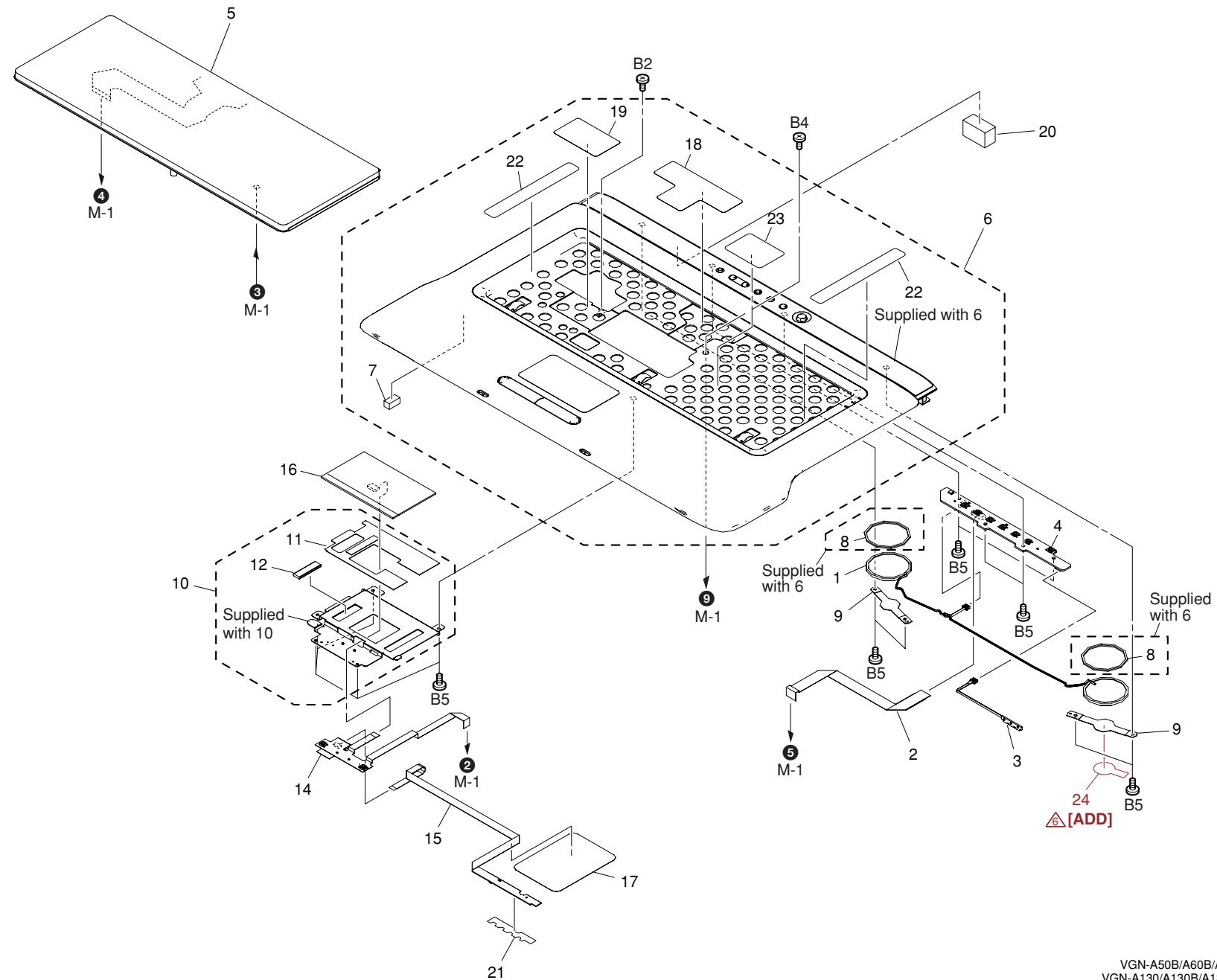
	Palmrest	Main Board	Bottom	Optical Drive	LCD	Accessories	Port Replicator
J	A70P P-1	M-1	B-1	D-1	L-1	A-1	A-2
	A60B P-2	M-2	B-2	D-1	L-2	A-1	A-2
	A50B P-2	M-2	B-2	D-1	L-2	A-1	-
	A60S* P-2	M-2	B-2	D-1	L-2	A-1	-
	A60PS* P-2	M-2	B-2	D-1	L-2	A-1	A-2
	A70S* P-1	M-1	B-1	D-1	L-1	A-1	A-2
AM	A70PS* P-1	M-1	B-1	D-1	L-1	A-1	A-2
	A190 P-1	M-1	B-1	D-1	L-1	A-1	A-2
	A130* P-2	M-2	B-2	D-1	L-2	A-1	A-2
	A130B* P-1	M-2	B-2	D-2	L-2, L-3	A-1	A-2
	A130P* P-2	M-2	B-2	D-1	L-2	A-1	A-2
	A170* P-1	M-1	B-1	D-1	L-1	A-1	A-2
EU	A170B* P-2	M-1	B-1	D-1	L-1	A-1	A-2
	A170P* P-1	M-1	B-1	D-1	L-1	A-1	A-2
	A197XP P-1	M-1	B-1	D-1	L-1	A-1	A-2
	A117S P-1	M-1	B-1	D-1	L-1	A-1	-
	A197VP P-1	M-1	B-1	D-1	L-1	A-1	-
	A115S P-2	M-2	B-2	D-1	L-3	A-1	-
AO	A195HP P-2	M-2	B-2	D-1	L-3	A-1	-
	A115B P-2	M-2	B-2	D-1	L-3	A-1	-
	A195EP P-2	M-2	B-2	D-1	L-3	A-1	-
	A17GP P-2	M-2	B-2	D-1	L-2	A-1	-
	A15GP P-2	M-2	B-2	D-1	L-3	A-1	-
	A17LP P-2	M-2	B-2	D-1	L-2	A-1	-
AM	A15LP P-2	M-2	B-2	D-1	L-3	A-1	-
	A17SP P-2	M-2	B-2	D-1	L-2	A-1	-
	A17TP P-2	M-2	B-2	D-1	L-2	A-1	-
	A19CP P-1	M-1	B-1	D-1	L-1	A-1	-
	A15CP P-2	M-2	B-2	D-1	L-2	A-1	-
	A13CP P-2	M-2	B-2	D-1	L-3	A-1	-
AO	A11C P-2	M-2	B-2	D-1	L-3	A-1	-

* : CTO Model

Confidential

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17LP/A17SP/A17TP/A19CP (AO)

P-1. Palmrest (17-inch Model)



P-1. Palmrest (17-inch Model)

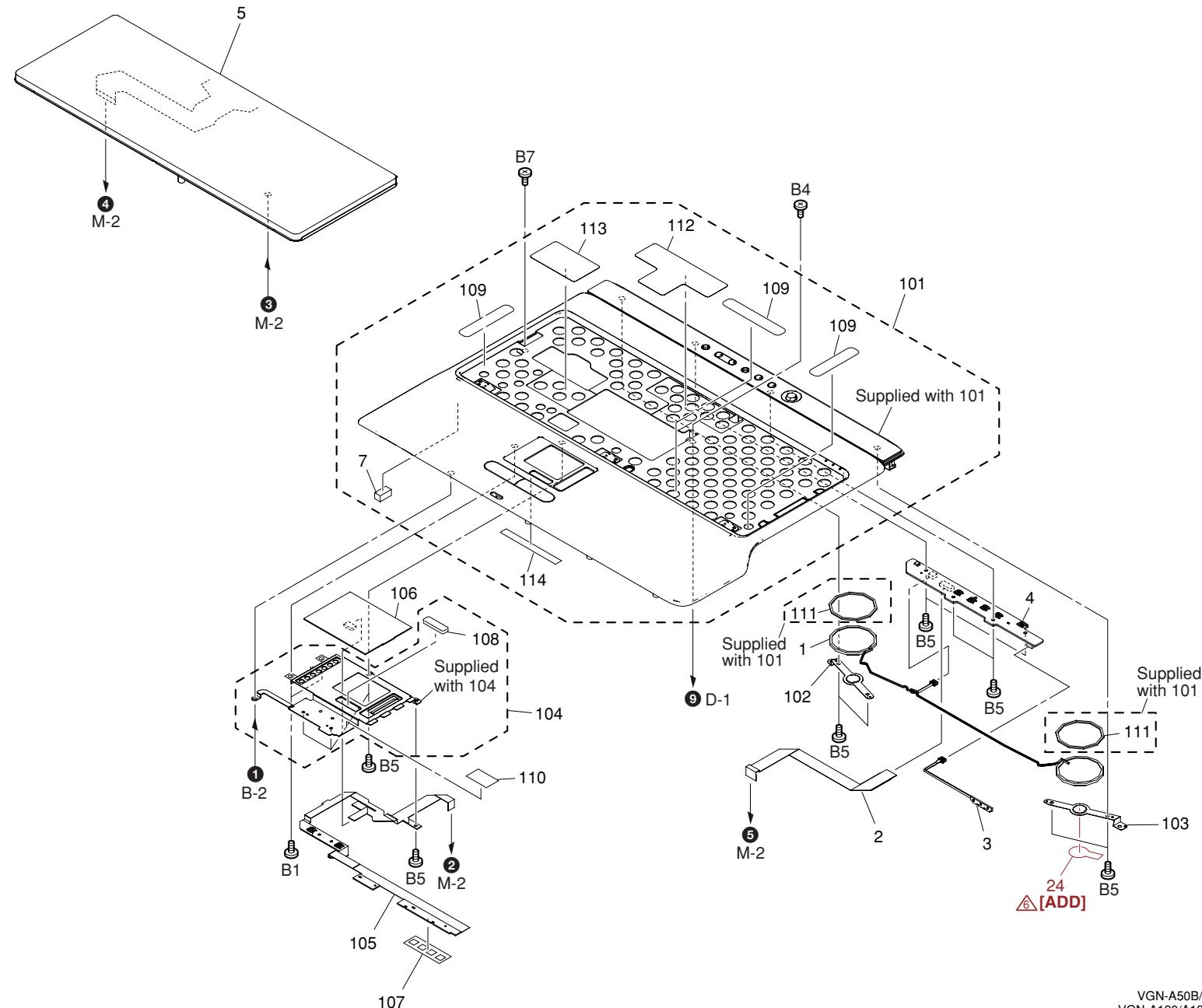
Ref.No.	Part No.	Description
1	A-1067-956-A	ASSY SPEAKER
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT
3	A-1058-417-A	CABLE, KB LED
4	A-8068-824-A \$	COMPLETE PWB SWX-166
6	X-4626-655-1	SE1P PALMREST ASSY
7	4-682-423-01	SE1 SPONGE BT
8	2-159-644-01	SE1P SHEET SPEAKER RING
9	4-682-556-01	SE1P SPEAKER BRACKET
10	X-4626-657-1	SE1P TP BKT ASSY
11	4-682-560-01	TOUCHPAD SHEET
12	2-103-688-01	SE1P TOUCHPAD GASKET
14	A-1058-427-A	PWB(12P), FLEXIBLE PRINT
15	A-1058-428-A	PWB(10P), FLEXIBLE PRINT
16	1-796-911-12	WIDE TOUCH PAD
17	2-103-691-01	SE1P BATT MASK MYLAR A
18	2-103-689-01	SE1P KEYBOARD BRACKET MYLAR A
19	2-103-690-01	SE1P KEYBOARD BRACKET MYLAR B
20	2-103-692-01	SE1P PALMREST GASKET
21	2-159-642-01	SE1P LED PORON
22	2-159-643-01	SE1P KEYBOARD SUPPORT MYLAR
23	2-159-977-01	SE1P KEYBOARD SUPPORT MYLAR B
24	2-548-305-01	E1 MYLAR SPEAKER BKT
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD, EG GRIP
B4	2-048-596-01	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP

Ref.No.	Part No.	Description	J	AM	EU	AO						
			A70P	A70S*	A70PS*	A190	A170*	A170B*	A170P*	A197XP	A117S	A197VP
△[MA]	5 1-478-650-11	KEYBOARD UNIT (JP)	●	●	●							
△[MA]	5 1-478-650-21	KEYBOARD UNIT (US)		●	●	●	●					●
△[MA]	5 1-478-640-31	KEYBOARD UNIT (CH)								●	●	●
△[MA]	5 1-478-640-21	KEYBOARD UNIT (DE)					●	●				
△[MA]	5 1-478-640-61	KEYBOARD UNIT (ES)					●	●				
△[MA]	5 1-478-640-41	KEYBOARD UNIT (FR)					●	●				
△[MA]	5 1-478-640-11	KEYBOARD UNIT (GB)					●	●				
△[MA]	5 1-478-640-51	KEYBOARD UNIT (IT)					●	●				
△[MA]	5 1-478-640-81	KEYBOARD UNIT (PT)					●	●				
△[MA]	5 1-478-640-71	KEYBOARD UNIT (SE)					●	●				

- This parts list contains two different types of parts.
The first type is the parts that are common to all models.
The other type is the parts that are different depending on each model.
- This model that is accompanied by asterisk (*) is the CTO model.
• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
• 機種名に(*)がつくのは CTO モデルです。

△[MA] △[MA]

P-2. Palmrest (15-inch Model)



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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
/GN-A115B/A115S/A117S/A195FB/A195HB/A197VB/A197XB (EU)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AQ)

P-2. Palmrest (15-inch Model)

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
1	A-1067-956-A	ASSY SPEAKER
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT
3	A-1058-417-A	CABLE, KB LED
4	A-8068-824-A	COMPLETE PWB SWX-166
7	4-682-423-01	SE1 SPONGE BT
D	24	E1 MYLAR SPEAKER BKT
	101	SE1 155 PALM SUB ASSY
	102	SE1 BRACKET SPEAKER L
	103	SE1 BRACKET SPEAKER R
	104	SE1 TOUCHPAD BRACKET ASSY
	105	PWB(12P),FLEXIBLE PRINT
	106	PAD, TOUCH
	107	SE1 TOUCHPAD FPC PORON
	108	SE1 KEYBOARD BRACKET GASKET
	109	SE1 MAYLAR KEYBOARD
B1	2-159-786-01	SE1 MYLAR TOUCH-PAD FPC
	4-682-941-01	SE1 RING GLUE
	2-103-453-01	SE1 MYLAR KEYBOARD BRACKET U
	2-103-454-01	SE1 MYLAR KEYBOARD BRACKET L
	2-176-528-01	SE1 TOUCHPAD TAPE
	4-672-836-01	SCREW,M2 SPECIAL HEAD
	2-048-596-01	SCREW, +B EG GRIP
B4	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-644-637-21	GRIP, M2 EG

Ref.No.	Part No.	Description	A60B	J	AM	EU	AO
5	1-478-650-11	KEYBOARD UNIT (JP)	●				
5	1-478-650-41	KEYBOARD UNIT (KR)	●	●			
5	1-478-650-51	KEYBOARD UNIT (TH)	●	●			
5	1-478-650-61	KEYBOARD UNIT (TW)	●	●			
5	1-478-650-21	KEYBOARD UNIT (US)		●	●		
5	1-478-640-31	KEYBOARD UNIT (CH)		●	●	●	
5	1-478-640-21	KEYBOARD UNIT (DE)		●	●	●	
5	1-478-640-61	KEYBOARD UNIT (ES)		●	●	●	
5	1-478-640-41	KEYBOARD UNIT (FR)		●	●	●	
5	1-478-640-11	KEYBOARD UNIT (GB)		●	●	●	
5	1-478-640-51	KEYBOARD UNIT (IT)		●	●	●	
5	1-478-640-81	KEYBOARD UNIT (PT)		●	●	●	
5	1-478-640-71	KEYBOARD UNIT (SE)		●	●	●	

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 - 機種名に(*)がつくのは CTO モデルです。

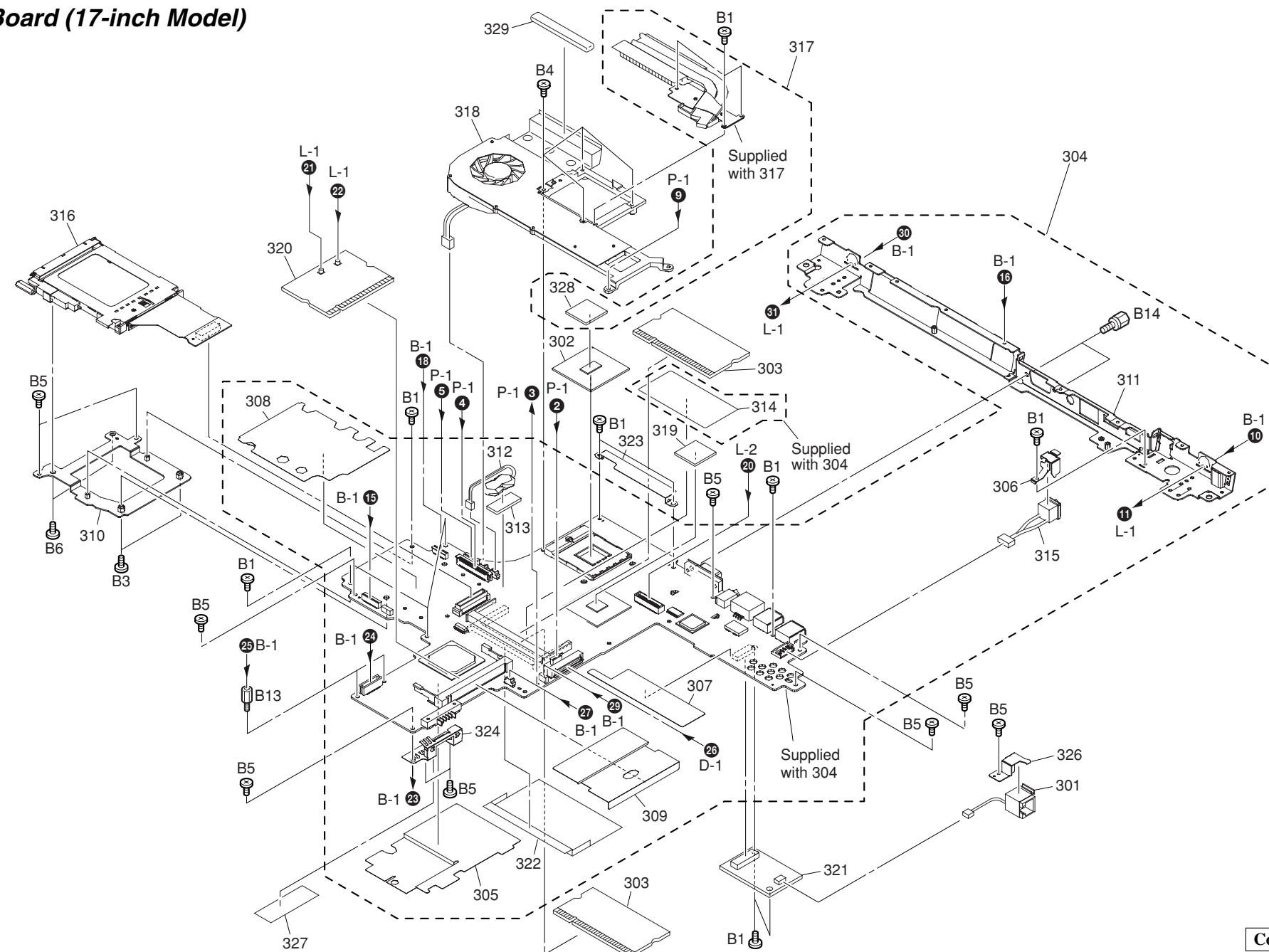
Confidential

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115P/A115G/A117G/A125EP/A125LP/A127P/A127XP (EU)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

M-1. Main Board (17-inch Model)



M-1. Main Board (17-inch Model)

Ref.No.	Part No.	Description
301	A-1058-426-A	CABLE, RJ11
304	A-8068-822-A \$ #	COMPLETE PWB MBX-110 SE+
305	4-682-945-01	SE1 2ND FAN MYLAR
306	X-2022-962-1	SE1 DC JACK HOLDER ASSY
307	4-682-478-01	SE1 ODD INSULATOR
308	4-682-942-01	SE1 PCMCIA MYLAR
309	4-682-475-01	SE1 SHEET MINI-PCI
310	4-682-569-01	SE1P CARD BOX BRACKET
311	X-4626-661-1	SE1P IO BRACKET ASSY
312	1-756-038-11	BATTERY,NICKEL HYDROGEN
313	4-642-711-11	SHEET (BATTERY), ADHESIVE
314	4-668-307-01	SHEET DIMM
315	A-1058-414-A	HARNESS,DC
316	A-1067-298-A	CONNECTOR(SE+),PC CARD
317	A-8119-893-A	SE1 FIN THERMAL MODULE
318	A-8119-892-A \$	SE1 THERMAL MODULE
319	2-103-694-01	SE1P VGA THERMAL PAD
321	1-761-606-14 #	CARD.MODEM
322	4-682-465-01	SE1 MYLAR DOOR DIMM
323	2-103-444-01	SE1 EMI SPRING FIN
324	X-2022-963-1	SE1 EMI SPRING BATT-1 ASSY
326	4-683-063-01	RJ11 BKT
327	2-176-527-01	2ND FAN MYLAR-1
328	2-103-452-01	CPU THERMAL PAD
329	2-103-693-01	SE1P THERMAL MODULE GASKET
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	SCREW, +B EG GRIP
B4	2-048-596-01	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW, M2 GRIP
B13	2-103-443-01	HEX2-5+7
B14	4-635-966-12	SCREW(HEX)

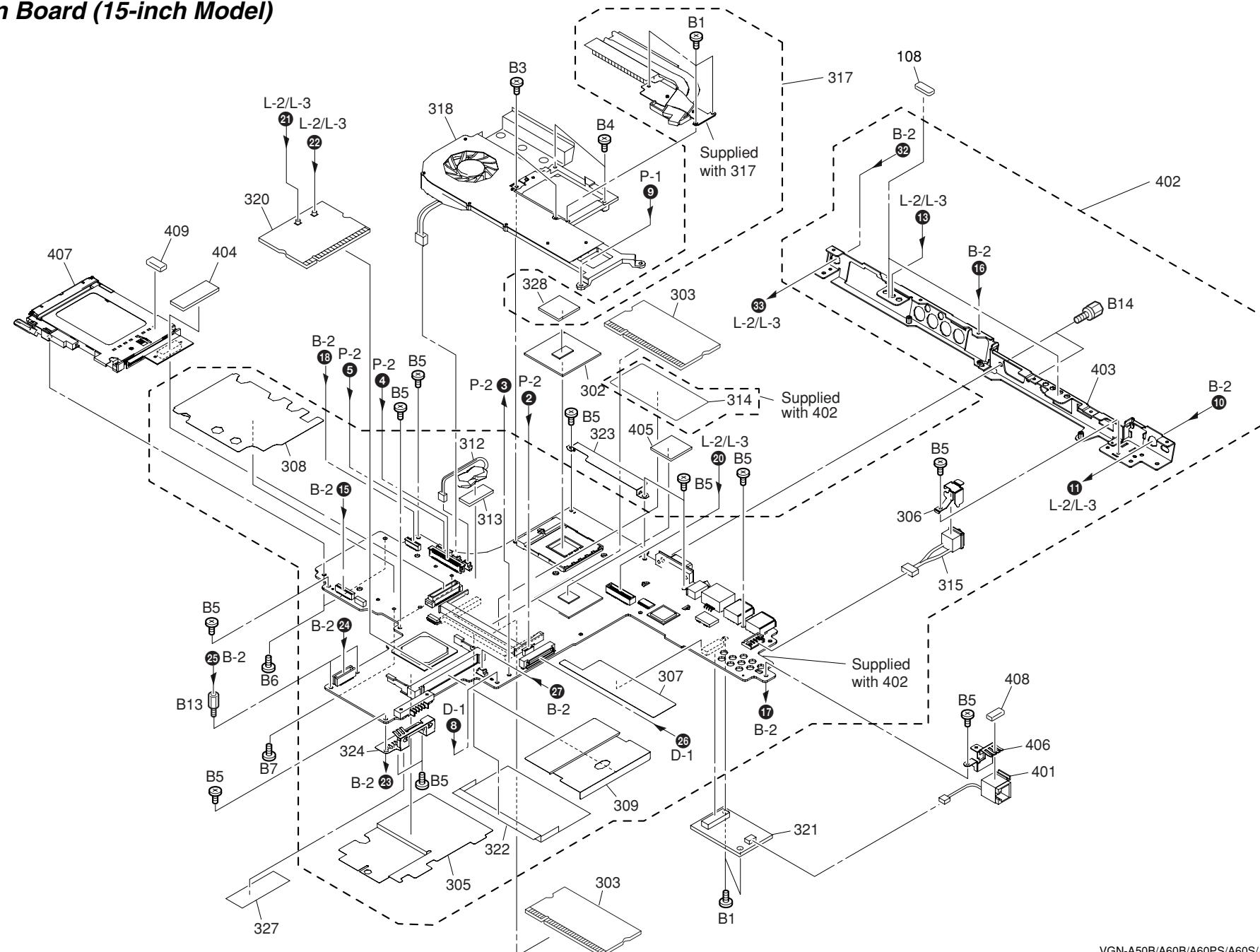
Ref.No.	Part No.	Description	J	AM	EU	AO						
			A70P	A70S*	A70PS*	A190	A170*	A170B*	A170P*	A197XP	A117S	A197VP
302	6-600-304-01	IC RH80535GC0211MSL6F9 (P-M1.5)	●	●		●	●	●				
302	6-706-572-01	IC RH80535NC017512SL6N6(Cel-M1.4G)				●	●	●				
302	6-600-368-01	IC RH80536GC0212MSL7GL(P-M 1.5AG)				●	●	●				
302	6-600-343-01	IC RH80536GC0292MSL7EP(P-M1.7A)	●	●	●	●	●	●		●	●	
302	6-600-306-01	IC RH80536GC0332MSL7EN(P-M1.8)	●	●	●	●	●	●	●			●
302	6-706-559-01	IC RH80536GC0412MSL7EM				●	●	●				
303	6-706-244-01	IC EBD11UD8ADD-6B(1GB)	●	●								
303	6-706-064-01	IC HYS64D32020HDL-6-C(256MB)	●	●	●	●	●	●	●	●	●	
303	6-705-847-01	IC HYS64D64020GBDL-6-C(512MB)	●	●	●	●	●	●	●			●
320	1-761-864-12 #	WIRELESS LAN CARD				●	●	●	●			
320	1-761-864-32 #	WIRELESS LAN CARD							●	●	●	
320	1-761-891-11 #	WIRELESS LAN CARD	●	●	●							

- △[MA] △[MA]
- 1) The DIP switch setting, refer to page 4-27 "DIP switch".
 - 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
 - 3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU" in CHAPTER 5.

- 1) DIP スイッチの設定は、4-27 頁「DIP Switch」を参照してください。
- 2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを利用することはできません。
FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。
- 3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。

- This parts list contains two different types of parts.
The first type is the parts that are common to all models.
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M-2. Main Board (15-inch Model)



M-2. Main Board (15-inch Model)

Ref.No.	Part No.	Description
108	2-103-022-01	KEYBOARD BRACKET GASKET
305	4-682-945-01	SE1 2ND FAN MYLAR
306	X-2022-962-1	SE1 DC JACK HOLDER ASSY
307	4-682-478-01	SE1 ODD INSULATOR
308	4-682-942-01	SE1 PCMCIA MYLAR
309	4-682-475-01	SE1 SHEET MINI-PCI
312	1-756-038-11	BATTERY,NICKEL HYDROGEN
313	4-642-711-11	SHEET (BATTERY), ADHESIVE
314	4-668-307-01	SHEET DIMM
315	A-1058-414-A	HARNESS,DC
317	A-8119-893-A	SE1 FIN THERMAL MODULE
318	A-8119-892-A \$	SE1 THERMAL MODULE
321	1-761-606-14 #	MODEM CARD
322	4-682-465-01	SE1 MYLAR DOOR DIMM
323	2-103-444-01	EMI SPRING FIN
324	X-2022-963-1	EMI SPRING BATT-1 ASSY
327	2-176-527-01	2ND FAN MYLAR-1
328	2-103-452-01	CPU THERMAL PAD
401	A-1058-422-A	CABLE, RJ11
402	A-8068-823-A \$ #	COMPLETE PWB MBX-110 SE
403	X-4626-725-1	SE1 BRACKET I/O ASSY
404	4-682-943-01	SE1 CARDBUS CONN SPONGE
405	4-676-423-01	VGA THERMAL PAD
406	4-682-442-01	SE1 RJ11 BRACKET
407	A-1067-297-A	CONNECTOR(SE),PC CARD
408	2-103-446-01	SE1 GASKET RJ11
409	2-103-445-01	SE1 GASKET CARD BOX
B1	4-679-836-04	SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	SCREW, +B EG GRIP
B4	2-048-596-01	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW, M2 GRIP
B7	4-644-637-21	GRIP, M2 EG
B13	2-103-443-01	HEX2-5+7
B14	4-635-966-12	SCREW (HEX)

△[COR] 4-672-836-01

Ref.No.	Part No.	Description	J		AM		EU		AO												
			A60B	A50B	A60S*	A60PS*	A130*	A130B*	A130P*	A115S	A195HP	A115B	A195EP	A17GP	A15GP	A17LP	A15LP	A17TP	A17SP	A15CP	A13CP
302	6-600-304-01	IC RH80535GC0211MSL6F9 (P-M1.5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
302	6-600-302-01	IC RH80535GC0251MSL6FA(P-M1.6B)																			
302	6-600-334-01	IC RH80535NC013512SL6N7(M-Cel1.3)			●	●															
302	6-706-572-01	IC RH80535NC017512SL6N6(Cel-M1.4G)					●	●	●	●											
302	6-600-368-01	IC RH80536GC0212MSL7GL(P-M 1.5AG)				●	●	●	●	●											
302	6-600-343-01	IC RH80536GC0292MSL7EP(P-M1.7A)			●	●	●	●	●												
302	6-600-306-01	IC RH80536GC0332MSL7EN(P-M1.8)			●	●	●	●	●												
302	6-706-559-01	IC RH80536GC0412MSL7EM					●	●	●	●	●										
303	6-706-244-01	IC EBD11UD8ADDA-6B(1GB)				●	●	●	●	●											
303	6-706-064-01	IC HYS64D32020HDL-6-C(256MB)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
303	6-705-847-01	IC HYS64D64020GBDL-6-C(512MB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
320	1-761-864-12 #	WIRELESS LAN CARD																			
320	1-761-864-22 #	WIRELESS LAN CARD	●	●	●	●															
320	1-761-864-32 #	WIRELESS LAN CARD																			

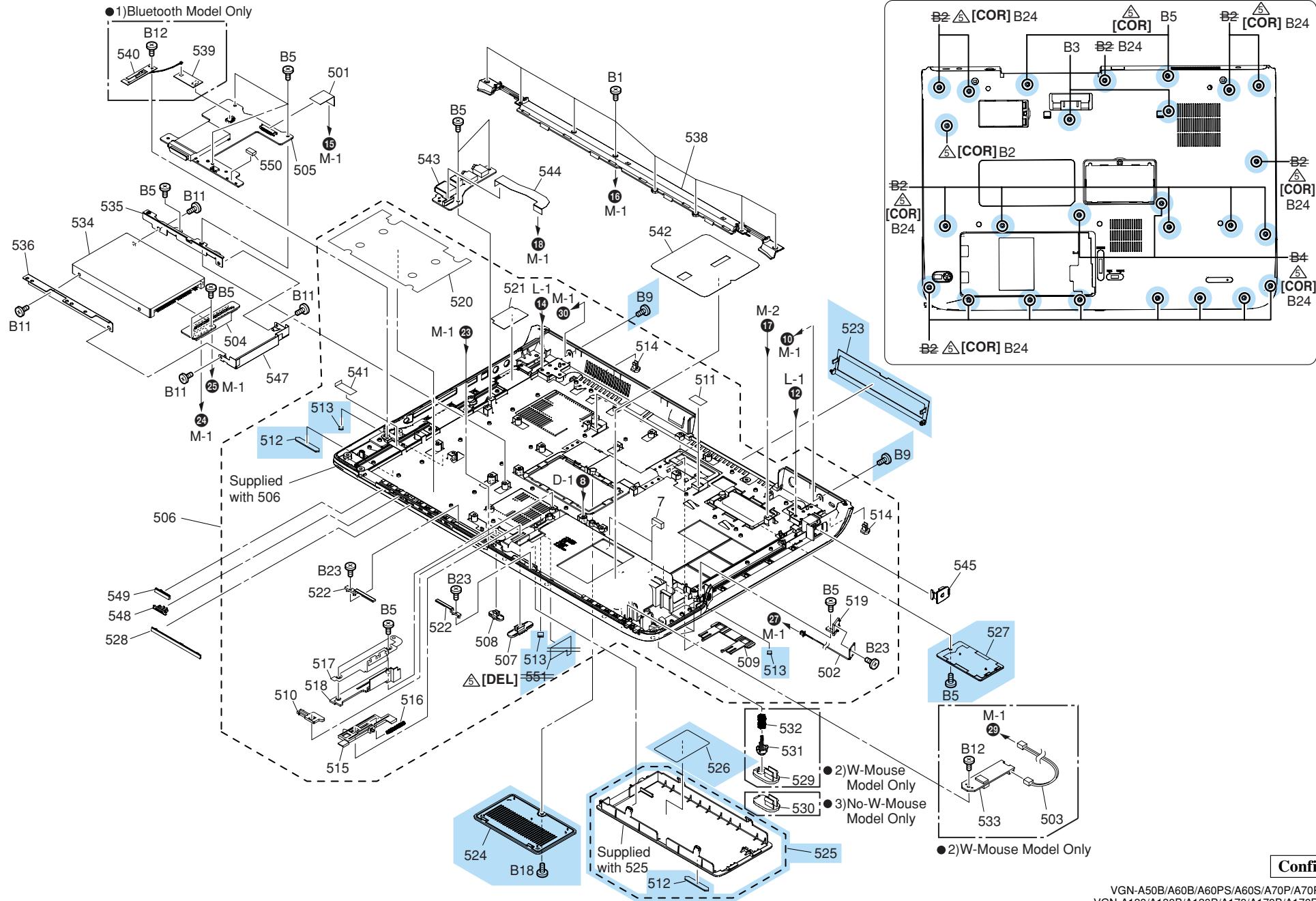
- 1) The DIP switch setting, refer to page 4-27 "DIP switch".
 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.
 When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
 3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU" in CHAPTER 5.

- 1) DIP スイッチの設定は、4-27 頁「DIP Switch」を参照してください。
 2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを再利用することはできません。
 FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。
 3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。

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- 機種名に(*)がつくのは CTO モデルです。

[MA] [MA]

B-1. Bottom (17-inch Model)



B-1. Bottom (17-inch Model)

Ref.No.	Part No.	Description
7	4-682-423-01	SE1 SPONGE BT
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A-8068-827-A \$	COMPLETE PWB CNX-247
505	A-8068-830-A \$ #	COMPLETE PWB IFX-335
		▲[ADD] 506 X-4626-658-1 SE1P BOTTOM ASSY
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01	& SE1 FOOT FRONT
513	4-682-444-01	& SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-01	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
520	2-103-697-01	SE1P HDD MYLAR
521	2-103-698-01	SE1P INSULATION AUDIO BD
522	4-682-447-01	SE1 LCD LATCH DETECTOR
523	X-4626-721-1	& SE1 DOOR I/O ASSY
524	X-4626-653-1	& SE1 DIMM DOOR ASSY
525	X-4626-720-1	& SE1 BATTERY DOOR ASSY
526	2-025-132-01	& LABEL BATTERY
527	4-682-466-01	& SE1 15S DOOR MODEM
535	4-682-580-01	SE1P BRACKET HDD-L
536	4-682-581-01	SE1P BRACKET HDD-R
538	4-682-568-01	SE1P DISPLAY BASE
541	2-103-696-01	SE1P SHEET BLUETOOTH ANT
542	2-103-695-01	SE1P BATT MASK MYLAR B
543	A-8068-825-A \$	COMPLETE PWB CNX-245
544	A-1058-429-A	PWB(20P),FLEXIBLE PRINT
545	4-682-462-01	SE1 15S MODEM R
547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
551	4-682-949-01	SE1 BATTERY CONN MYLAR
		▲[DEL]

B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, +B EG GRIP
B4	2-048-596-01	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B9	2-159-307-01	<&> SCREW, M2.6+B EG GRIP
B11	4-672-839-01	SCREW, M3x4
B12	4-672-840-01	SCREW, M2 TAPPING,FLAT HEAD
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW, 2-4L

- 1) The parts of Ref.539 and Ref.540 are used in the BLUETOOTH installation models.
 - 2) Ref.503,529 and Ref.531 are used only in the models supplied with the Wireless-Mouse.

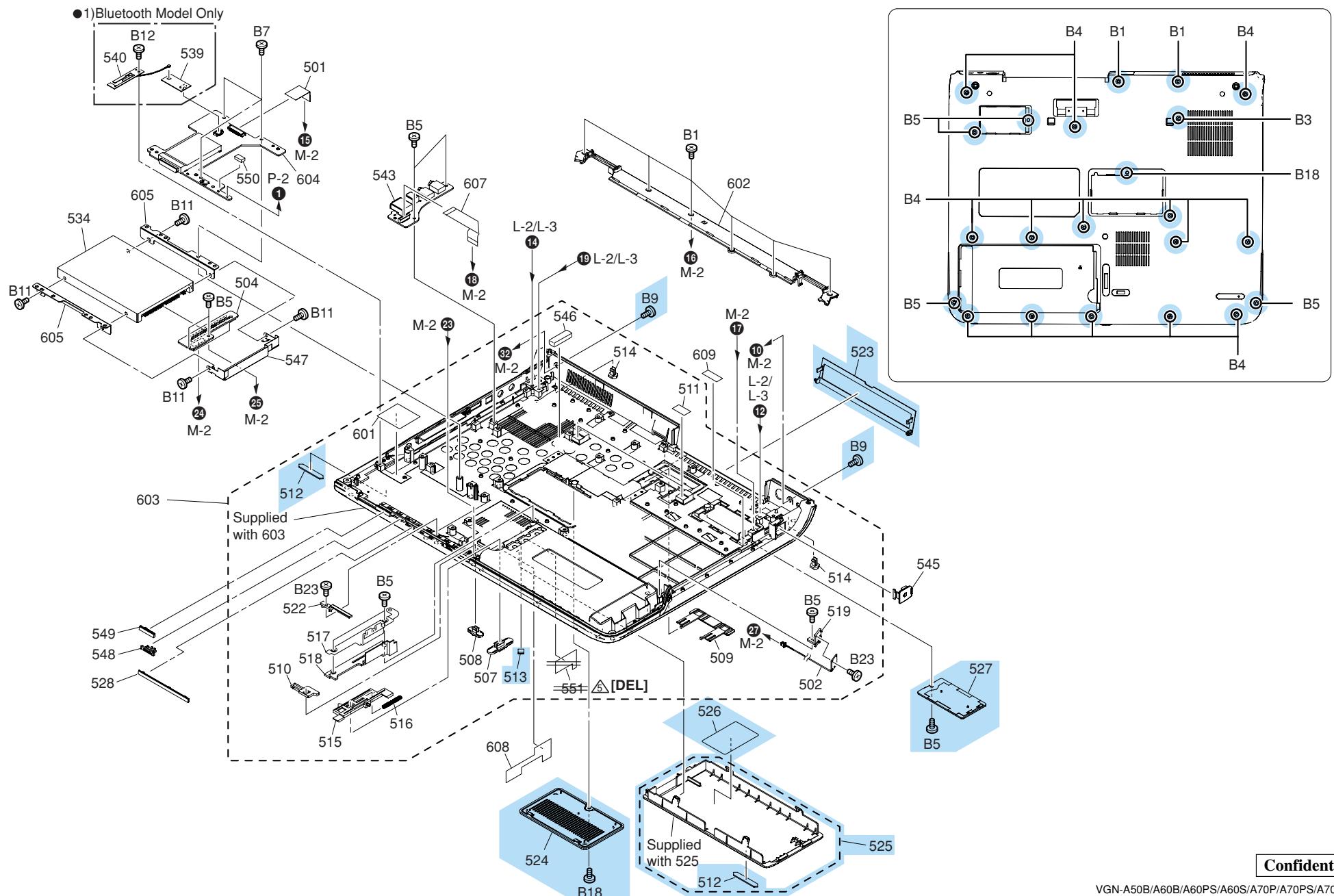
1) Ref.539 と Ref.540 は、BLUETOOTH 搭載モデル用の部品です。

2) Ref.503, 529, 531 は、Wireless-Mouse 付モデル用の部品です。

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 - 機種名に(*)がつくのは CTO モデルです。

[MA] □ [MA] □

B-2. Bottom (15-inch Model)



B-2. Bottom (15-inch Model)

Ref.No.	Part No.	Description
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A8068-827-A \$	COMPLETE PWB CNX-247
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01	& SE1 FOOT FRONT
513	4-682-444-01	& SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-01	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
522	4-682-447-01	LCD LATCH DETECTOR
523	X-4626-721-1	& SE1 DOOR I/O ASSY
524	X-4626-653-1	& SE1 DIMM DOOR ASSY
525	X-4626-720-1	& SE1 BATTERY DOOR ASSY
526	2-025-132-01	& LABEL BATTERY
527	4-682-466-01	& SE1 15S DOOR MODEM
543	A-8068-825-A	COMPLETE PWB CNX-245
545	4-682-462-01	MODEM R
546	2-103-447-01	THERMAL MODULE GASKET
547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
551	4-682-049-01	SE1 BATTERY CONN MYLAR
601	4-024-791-01	SE1 HDD MYLAR
602	4-682-477-01	SE1 DISPLAY BASE
603	X-4626-650-1	SE1 BOTTOM CASE MODULE
604	A-8068-829-A \$ #	COMPLETE PWB IFX-324
605	4-682-418-01	SE1 BRACKET HDD
607	A-1058-424-A	PWB(20P), FLEXIBLE PRINT
608	2-159-785-01	SE1 BATTERY CONN MYLAR-1
609	4-672-493-01	COVER(SC)
B1	4-672-836-01	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, M2 SPECIAL HEAD
B4	2-048-596-01	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD
B7	4-644-637-21	<&> GRIP, M2 EG
B9	2-159-307-01	<&> SCREW, M2.6+B EG GRIP
B11	4-672-839-01	SCREW, M3x4
B12	4-672-840-01	SCREW, M2 TAPPING,FLAT HEAD
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW 2-41

Ref.No.	Part No.	Description	A60B	J	A60S*	A60PS*	AM	EU	AO
528	4-682-449-01	SE1 LENS PANEL CTO (W/WL,W/BT)							
528	4-682-449-11	SE1 LENS PANEL CTO(W/WL,No-BT)	●	●	●	●			
528	4-682-449-21	SE1 LENS PANEL CTO(No-WL,No-BT)							
534	A-8116-402-A	\$ # ASSY HDD 60GB(I,40)(S)	●	●	●	●			
534	A-1062-140-A	\$ # HDD (80GB,HTS548080M9AT00)(S)			●	●			
534	A-8111-360-A	\$ # ASSY HDD 60GB(T,30)(S)			●	●			
534	A-8117-059-A	\$ # ASSY HDD 40GB(H,40)(S)			●	●			
534	A-1062-141-A	\$ # HDD (MHT2040AT-40GB-A)(S)			●	●			
539	1-805-554-11	BLUETOOTH MODULE					●	●	
540	A-1058-407-A	CABLE,BT ANTENNA					●	●	
548	4-682-446-01	SE1 SWICH W LAN(W/WL)	●	●	●	●	●	●	
549	4-682-448-01	SE1 ESCLUSION BECESS E(No-WL)					●	●	

- 1) The parts of Ref.539 and Ref.540 are used in the BLUETOOTH installation models.
 - 1) Ref.539 と Ref.540 は、BLUETOOTH 搭載モデル用の部品です。

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 - 機種名に(*)がつくのは CTO モデルです。

Confidential

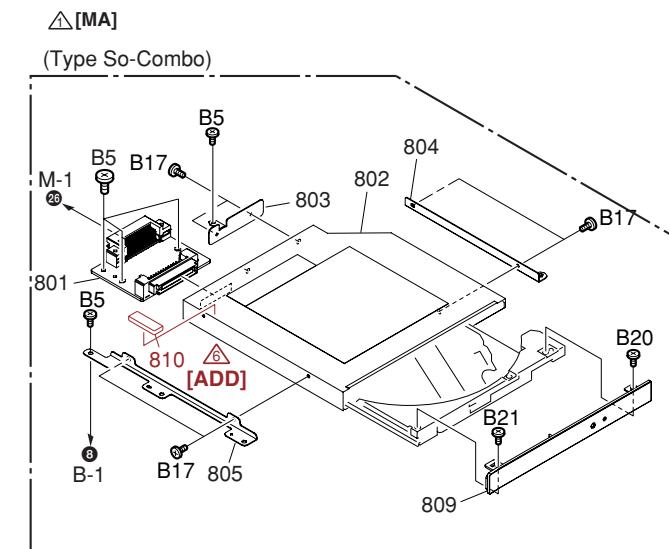
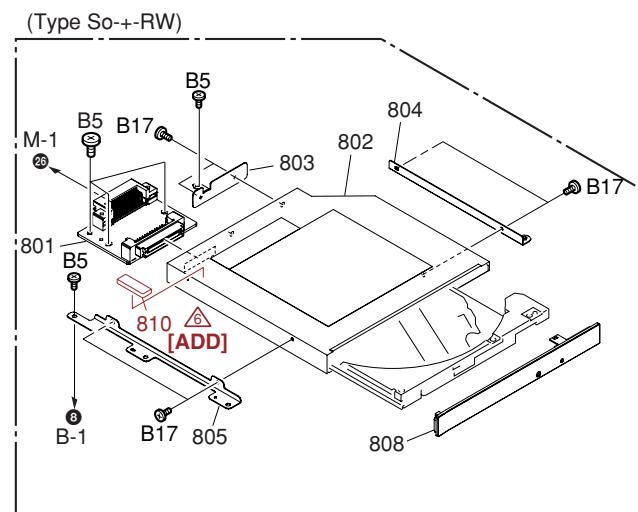
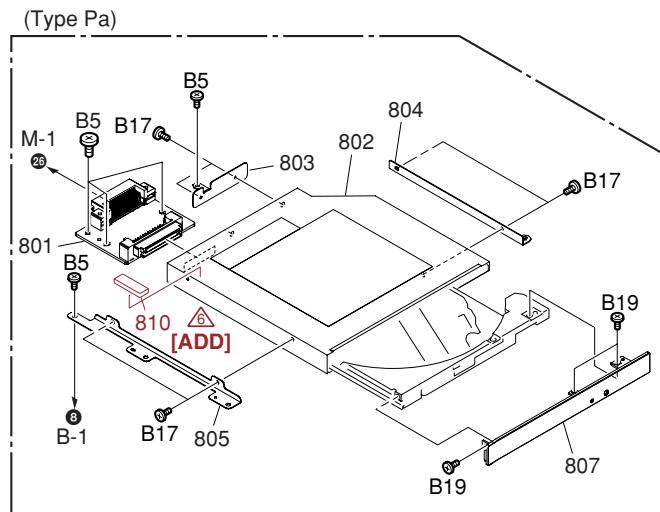
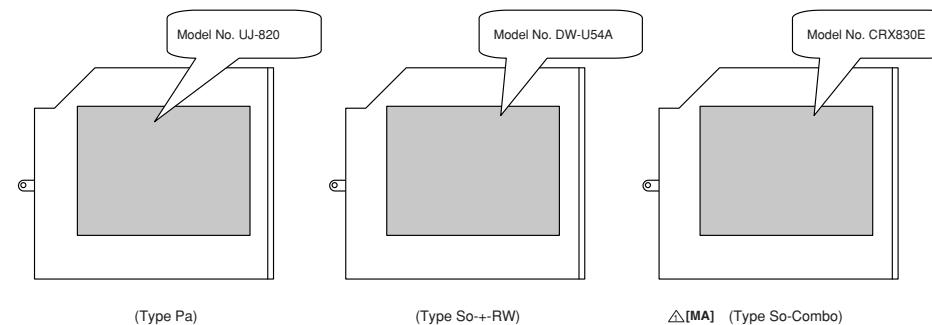
VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

D-1. Optical Drive (17-inch Model)

How to Use Parts Differently.

This series of product uses the three different types of optical drive (Pa type and So type). When replacing the optical drive, use the Pa type parts for the Pa type optical drive, and use the So type parts for the So type optical drive. Replace the peripheral parts of optical drive with the same type in the same way.

[How to identify the Pa and So types of parts]



D-1. Optical Drive (17-inch Model)

Ref.No.	Part No.	Description
801	A-8068-828-A	COMPLETE PWB CNX-256
803	4-682-408-01	SE1 CD BRACKET BACK
804	4-682-406-01	SE1 CD BRACKET L
805	4-682-407-01	SE1 CD BRACKET R
△[ADD]	810	2-102-385-01 GASKET ODD
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD
B17	4-671-538-01	SCREW(M2x4), SPECIAL HEAD
B19	4-645-177-01	SCREW(M1.7x3.5), SPECIAL
B20	4-679-805-01	SCREW M1.7x2.5
B21	4-679-805-11	SCREW M1.7x5.5

Ref.No.	Part No.	Description	J	AM	EU	AO						
			A70P	A70S*	A70PS*	A190	A170*	A170B*	A170P*	A197XP	A117S	A197VP
802	1-796-904-11	\$ # DVD+RW (UJ-820)	●	●	●	●	●	●	●	●	●	●
802	8-457-575-40	\$ # DRIVE, DVD DW-U54A-VS/T	●	●	●	●	●	●	●	●	●	●
802	8-457-270-10	\$ # RW DRIVE CRX830E-VN	●	●	●	●	●	●	●	●	●	●
807	X-4626-647-1	SE1 PCC UJDA820 COMBO BEZEL	●	●	●	●	●	●	●	●	●	●
808	X-4626-646-1	SE1 SONY DW U54A COMBO BEZEL	●	●	●	●	●	●	●	●	●	●
809	X-4626-645-1	SE1 SONY CRX830 COMBO BEZEL	●	●	●	●	●	●	●	●	●	●

△[MA]
△[MA]

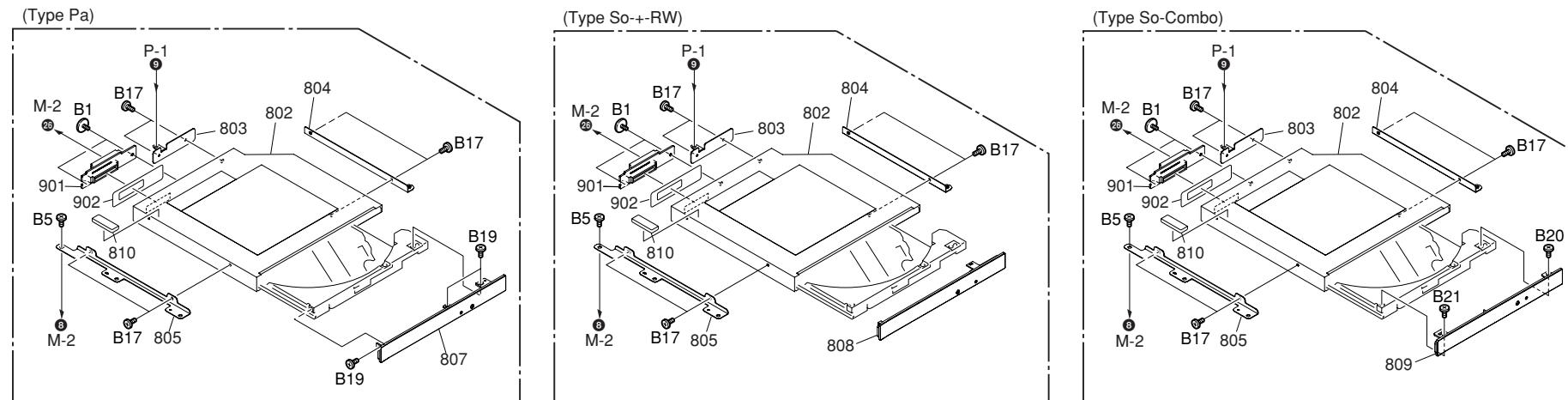
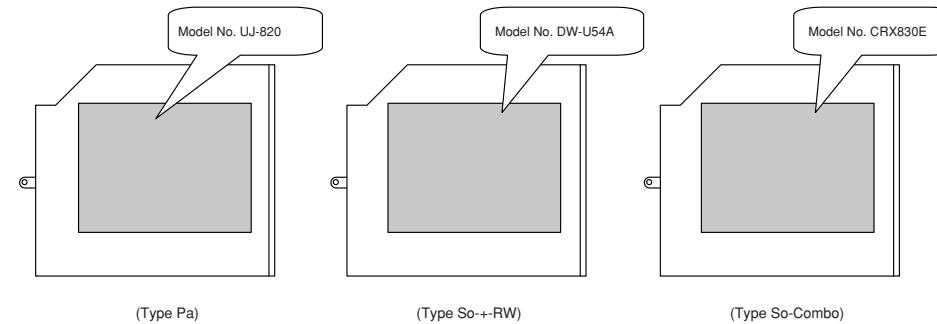
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D-2. Optical Drive (15-inch Model)

How to Use Parts Differently.

This series of product uses the three different types of optical drive (Pa type and So type). When replacing the optical drive, use the Pa type parts for the Pa type optical drive, and use the So type parts for the So type optical drive. Replace the peripheral parts of optical drive with the same type in the same way.

[How to identify the Pa and So types of parts]



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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
 VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
 VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
 VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

D-2. Optical Drive (15-inch Model)

Ref.No.	Part No.	Description
803	4-682-408-01	SE1 CD BRACKET BACK
804	4-682-406-01	SE1 CD BRACKET L
805	4-682-407-01	SE1 CD BRACKET R
901	A-8068-826-A \$	COMPLETE PWB CNX-246
902	4-682-950-01	SE1 ODD BOARD MYLAR
903	2-102-385-01	GASKET ODD
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD
B17	4-671-538-01	SCREW(M2x4), SPECIAL HEAD
B19	4-645-177-01	SCREW(M1.7x3.5), SPECIAL
B20	4-679-805-01	SCREW M1.7x2.5
B21	4-679-805-11	SCREW M1.7x5.5

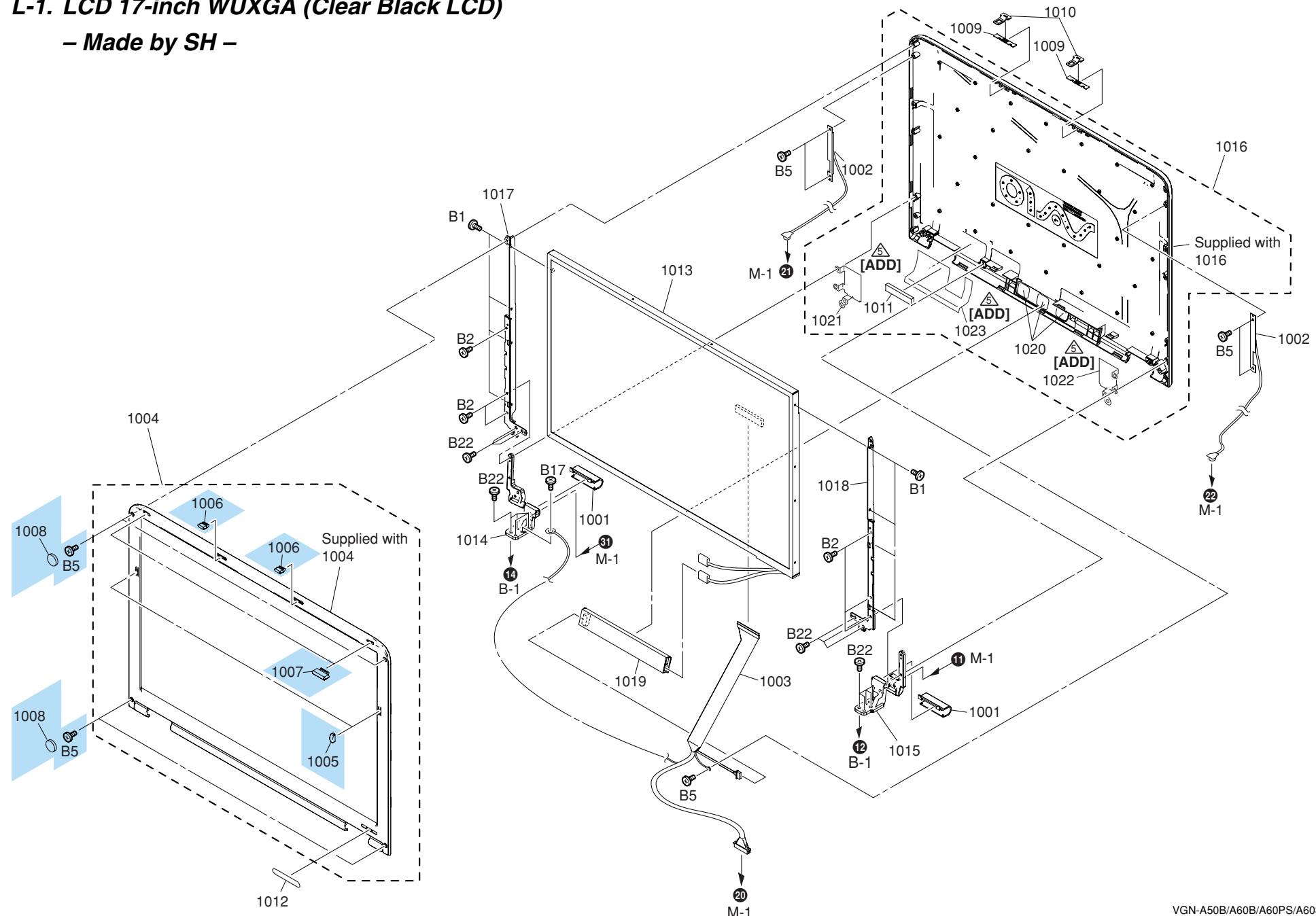
△[COR] 810

Ref.No.	Part No.	Description	J		AM		EU		AO												
			A60B	A50B	A60S*	A60PS*	A130*	A130B*	A130P*	A115S	A195HP	A115B	A195EP	A17GP	A15GP	A17LP	A15LP	A17SP	A17TP	A15CP	A13CP
802	1-796-904-11	\$ # DVD+RW (UJ-820)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
802	8-457-575-40	\$ # DRIVE, DVD DW-U54A-VS/T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
802	8-457-270-10	\$ # RW DRIVE CRX830E-VN			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
807	X-4626-647-1	SE1 PCC UJDA820 COMBO BEZEL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
808	X-4626-646-1	SE1 SONY DW U54A COMBO BEZEL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
809	X-4626-645-1	SE1 SONY CRX830 COMBO BEZEL			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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L-1. LCD 17-inch WUXGA (Clear Black LCD)

- Made by SH -



L-1. LCD 17-inch WUXGA (Clear Black LCD)

- Made by SH -

Ref.No.	Part No.	Description
1001	4-682-380-01	SE1 COVER HINGE
1003	A-8119-991-A	HARNESS, LCD FOR 17WUXGA
1004	X-4626-664-1	SE1P BEZEL DISPLAY 17 ASM
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-02	HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1013	A-1062-138-A \$ #	LCD_UNIT_(2CFL-17WUXGA)(S)
1014	4-682-578-01	SE1P HINGE L AMS
1015	4-682-577-01	SE1P HINGE R AMS
1016	X-4626-663-1	SE1P HOUSING DISPLAY 17 2 ASM
1017	4-682-576-01	SE1P LCD BRACKET L
1018	4-682-575-01	SE1P LCD BRACKET R
1019	1-478-629-11	INVERTER UNIT(2CFL-17W)
1020	2-159-645-01	SE1P INVERTER ADHESIVE

B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B17	4-671-538-01	M2x2,SPECIAL HEAD
B22	2-108-227-01	SCREW M2.6x8

▲[ADD]	1021	2-190-716-01	SE1P HOUSING AL L
▲[ADD]	1022	2-190-717-01	SE1P HOUSING AL R
▲[ADD]	1023	2-190-718-01	SE1P HOUSING AL BTM



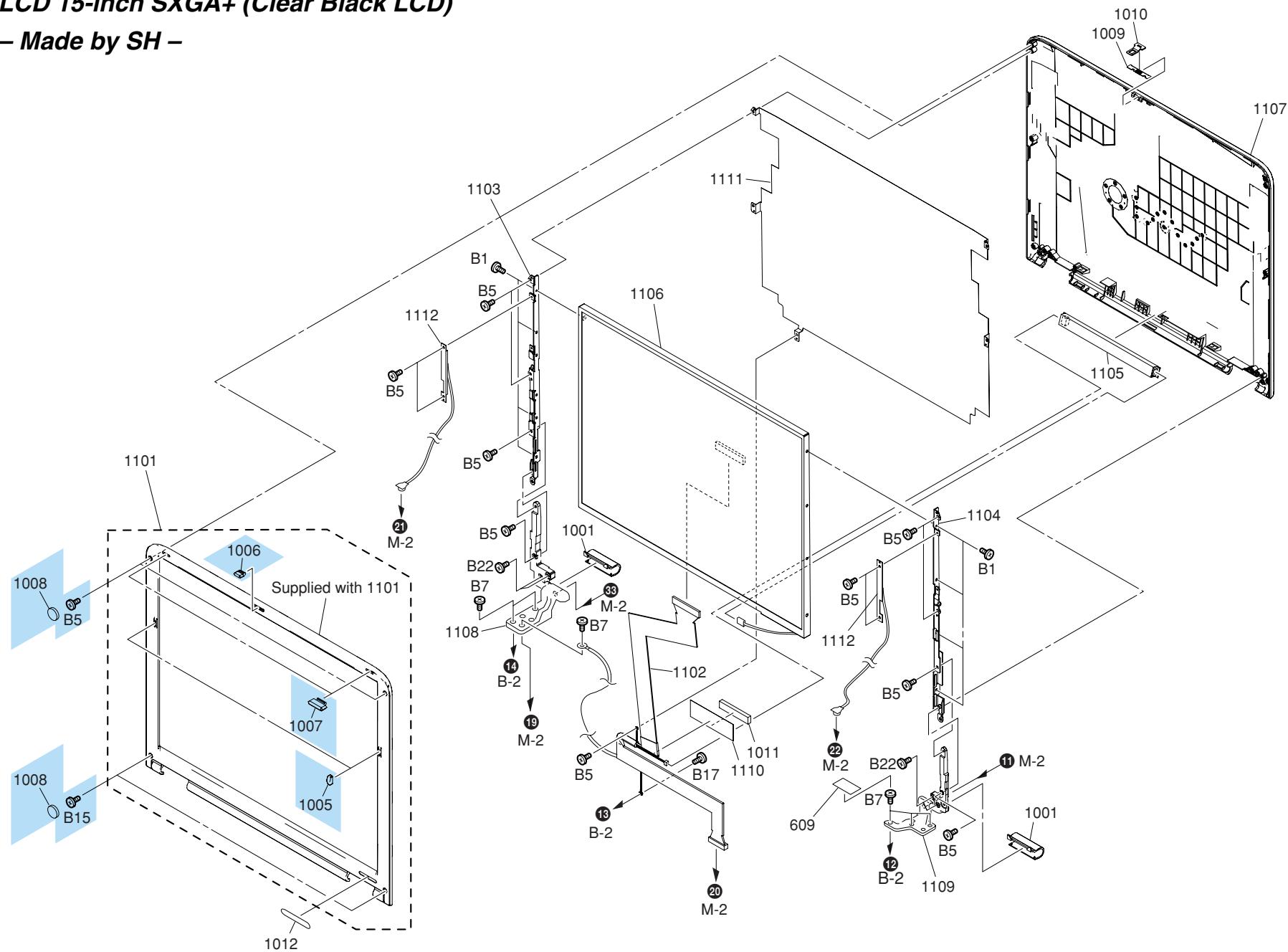
Ref.No.	Part No.	Description	J	AM	EU	AO
1002	A-1058-425-A	CABLE, WL ANTENNA	●	●	●	●
1012	2-021-374-11	LABEL ID 2750 (E)			●	
1012	2-021-374-21	LABEL ID 2750 (E)			●	
1012	2-021-374-31	LABEL ID 2750 (E)			●	
1012	2-021-372-11	LABEL ID 2750 (UCTO)		●		
1012	2-021-372-21	LABEL ID 2750 (UCTO)		●		
1012	2-021-376-51	LABEL ID 2750 (UCTO)		●		
1012	2-021-369-01	LABEL ID 2750 (J)	●			
1012	2-021-371-11	LABEL ID 2750 (U)		●		
1012	2-021-375-11	LABEL ID 2750 (C)			●	

▲ [COR] 2-021-372-51

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L-2. LCD 15-inch SXGA+ (Clear Black LCD)

- Made by SH -



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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
1GB/A150P/A150R/A151P/A170P/A171P/A172P/A173P/A180P (AS)

15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

L-2. LCD 15-inch SXGA+ (Clear Black LCD)

- Made by SH -

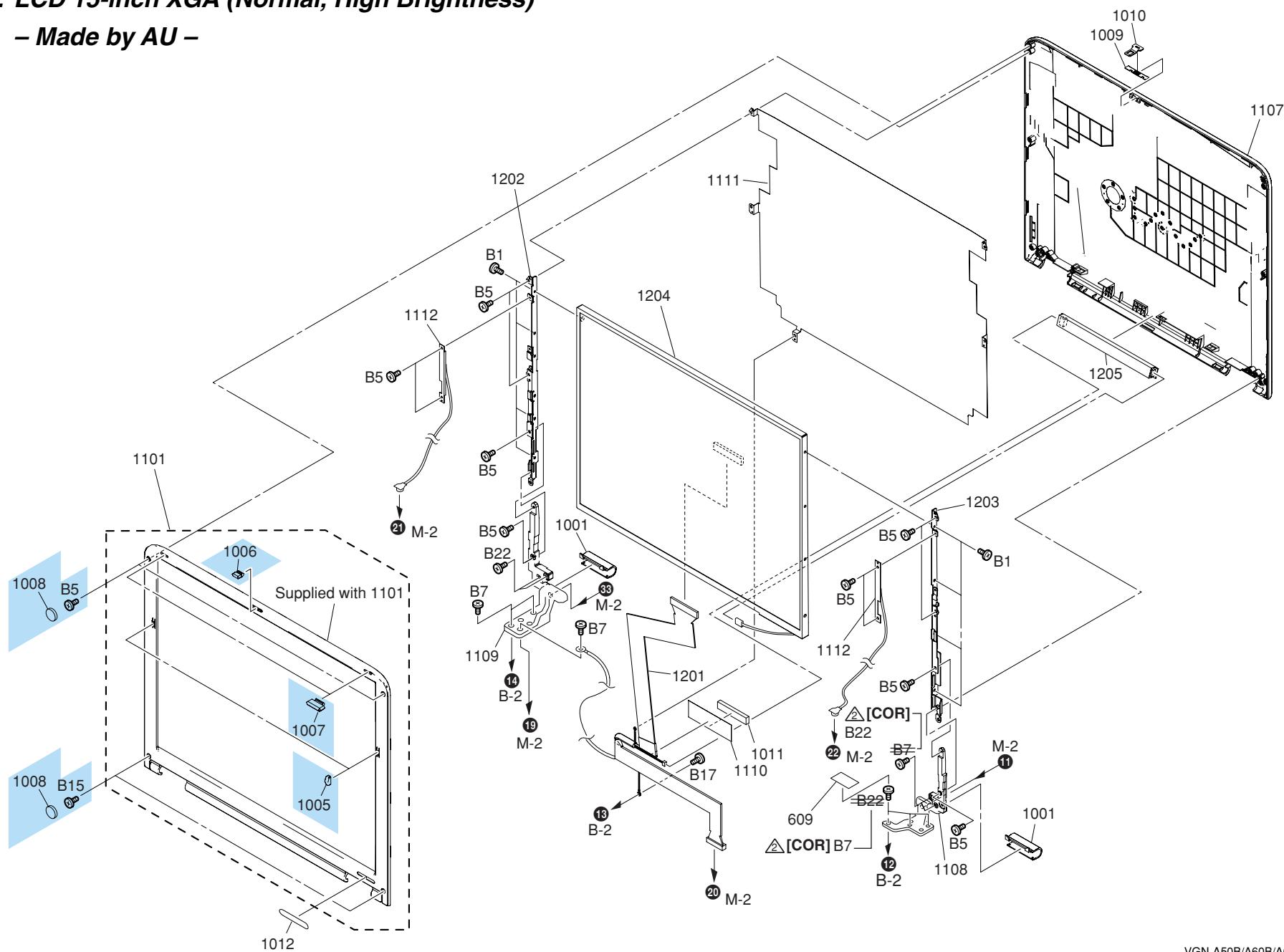
Ref.No.	Part No.	Description
609	4-672-493-01	COVER(SC)
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-01	SE1 HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1101	X-4626-643-1	SE1 BEZEL DISPLAY 15 ASSY
1102	A-8119-992-A	HARNESS, LCD FOR 15SXGA+
1103	4-682-402-01	SE1 BRACKET LCD SH L
1104	4-682-403-01	SE1 BRACKET LCD SH R
1105	1-478-048-11	INVERTER UNIT
1106	A-1062-139-A \$ #	LCD UNIT (2CFL-15SXGA+-SH)(S)
1107	X-4626-642-1	SE1 HOUSING DISPLAY 15 ASSY
1108	4-682-405-01	SE1 HINGE R
1109	4-682-404-01	SE1 HINGE L
1110	2-024-789-01	SE1 TAPE LVDS DISPLAY
1111	4-682-391-01	SE1 SHEET LCD
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	GRIP, M2 EG
B15	4-653-582-21	<&> SCREW M2(NE)
B17	4-671-538-01	M2x2,SPECIAL HEAD
B22	2-108-227-01	SCREW M2.6x8

Ref.No.	Part No.	Description	A60B	J	AM	AO
	1012 2-021-379-11	LABEL ID 2750 (I)				
	1012 2-021-379-31	LABEL ID 2750 (I)				
	1012 2-021-379-41	LABEL ID 2750 (I)				
	1012 2-021-379-51	LABEL ID 2750 (I)				
	1012 2-021-369-01	LABEL ID 2750 (J)	●			
	1012 2-021-369-11	LABEL ID 2750 (J)		●		
	1012 2-021-372-31	LABEL ID 2750 (UCTO)			●	
	1012 2-021-372-41	LABEL ID 2750 (UCTO)			●	
	1012 2-021-372-61	LABEL ID 2750 (UCTO)			●	
	1012 2-021-375-21	LABEL ID 2750 (C)				
	1112 A-1058-421-A	CABLE, WL ANTENNA	●	●	●	●

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L-3. LCD 15-inch XGA (Normal, High Brightness)

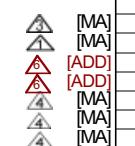
– Made by AU –



L-3. LCD 15-inch XGA (Normal, High Brightness)

– Made by AU –

Ref.No.	Part No.	Description
609	4-672-493-01	COVER(SC)
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-01	SE1 HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1101	X-4626-643-1	SE1 BEZEL DISPLAY 15 ASSY
1107	X-4626-642-1	SE1 HOUSING DISPLAY 15 ASSY
1108	4-682-405-01	SE1 HINGE R
1109	4-682-404-01	SE1 HINGE L
1110	2-024-789-01	SE1 TAPE LVDS DISPLAY
1111	4-682-391-01	SE1 SHEET LCD
1201	A-8119-993-A	HARNESS, LCD FOR 15XGA
1202	4-682-400-01	SE1 BRACKET LCD SPWG L
1203	4-682-401-01	SE1 BRACKET LCD SPWG R
1205	1-476-316-31	INVERTER UNIT
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	GRIP, M2 EG
B15	4-653-582-21	<&> SCREW M2(NE)
B17	4-671-538-01	M2x2,SPECIAL HEAD
B22	2-108-227-01	SCREW M2.6x8

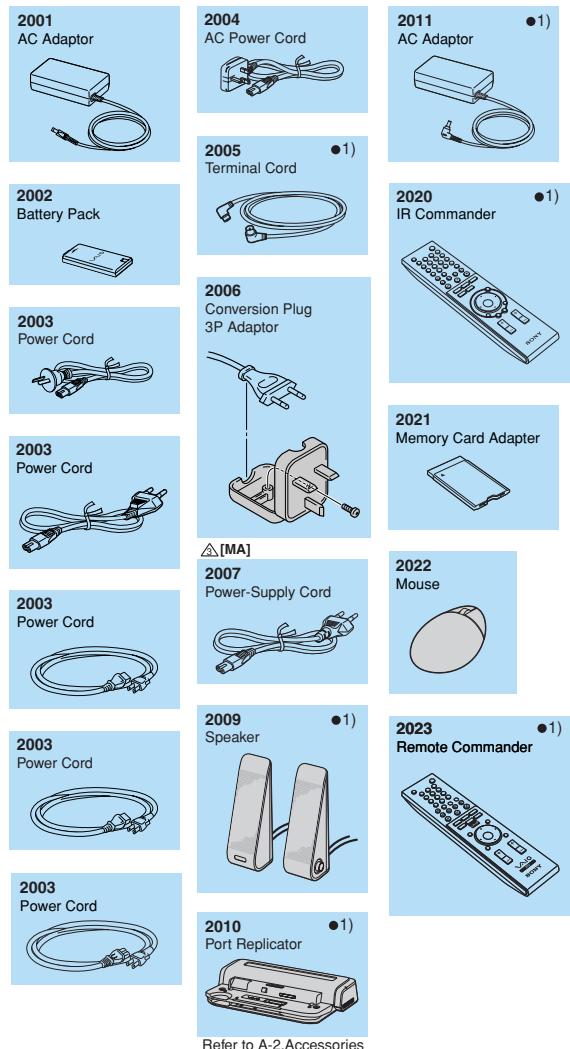


Ref.No.	Part No.	Description	J	A60S*	A60PS*	A130*	A130B*	A130P*	AM	A115S	A195HP	EU	A115B	A195EP	A15GP	A15LP	A13CP	AO	A11C
	1012 2-021-374-41	LABEL ID 2750 (E)																	
	1012 2-021-374-51	LABEL ID 2750 (E)																	
	1012 2-021-374-61	LABEL ID 2750 (E)																	
	1012 2-021-374-71	LABEL ID 2750 (E)																	
	1012 2-021-379-21	LABEL ID 2750 (I)																	
	1012 2-021-379-61	LABEL ID 2750 (I)																	
	1012 2-021-372-31	LABEL ID 2750 (UCTO)																	
	1012 2-021-372-41	LABEL ID 2750 (UCTO)																	
	1012 2-021-372-61	LABEL ID 2750 (UCTO)																	
	1012 2-021-375-31	LABEL ID 2750 (C)																	
	1012 2-021-375-41	LABEL ID 2750 (C)																	
	1112 A-1058-421-A	CABLE, WL ANTENNA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1204 A-8115-791-A \$ #	ASSY LCD 15XGA(AU)(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1204 A-8119-699-A \$ #	ASSY LCD(15XGA)(AUO)(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

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[MA] □ [MA] □ [MA] □ [MA] □

A-1. Accessories



Refer to A-2.Accessories

Ref.No.	Part No.	Description	A70P	J	AM	EU	AO
2001	1-477-205-71	& ADAPTOR, AC	●	●	●	●	●
2011	1-478-037-32	& ADAPTOR, AC	●	●	●	●	●
2002	A-1062-145-A	& BATTERY 9130PA SNT(J)(S)	●	●	●	●	●
2002	A-1062-142-A	& BATTERY 9130PA (U)(S)	●	●	●	●	●
2002	A-1062-143-A	& BATTERY 9130PA (E)(S)	●	●	●	●	●
2003	1-555-074-32	& CORD, POWER	●	●	●	●	●
2003	1-575-131-61	& CORD, POWER	●	●	●	●	●
2003	1-757-562-21	& CORD, POWER	●	●	●	●	●
2003	1-782-476-22	& CORD, POWER	●	●	●	●	●
2003	1-790-732-32	& CORD, POWER	●	●	●	●	●
2004	1-823-935-51	& CORD, AC POWER	●	●	●	●	●
2005	1-829-239-11	& CORD, F TERMINAL WITH RF	●	●	●	●	●
2006	1-770-019-12	& ADAPTOR, CONVERSION PLUG 3P	●	●	●	●	●
2007	1-823-947-32	& POWER-SUPPLY CORD	●	●	●	●	●
2008	1-816-429-12	& PHONE PLUG (GB)	●	●	●	●	●
2009	A-8120-057-A	& ASSY SPEAKER	●	●	●	●	●
2010	-	PORT REPLICATOR	●	●	●	●	●
2020	1-478-300-21	& IR COMMANDER RM-GP5U	●	●	●	●	●
2021	1-478-615-11	& MEMORY CARD ADAPTER	●	●	●	●	●
2022	1-796-824-31	& MOUSE (SLV)	●	●	●	●	●
2023	1-478-688-11	& REMOTE COMMANDER (RM-VC10)	●	●	●	●	●
-	2-025-262-01	& MANUAL (XP), INSTRUCTION	●	●	●	●	●
-	2-059-600-11	& MANUAL (XP), INSTRUCTION	●	●	●	●	●
-	2-059-600-21	& MANUAL (XP), INSTRUCTION	●	●	●	●	●
-	2-059-600-41	& MANUAL (XP), INSTRUCTION	●	●	●	●	●
-	2-059-605-31	& MANUAL (XP), INSTRUCTION	●	●	●	●	●
-	2-055-913-01	& QUICK START, 2750U (SD)	●	●	●	●	●
-	2-024-877-01	& GETTING STARTED BOOKLET 2750	●	●	●	●	●
-	2-024-872-11	& HW SPECS 2750 XP HOME(GB,NL)	●	●	●	●	●
-	2-024-872-21	& HW SPECS 2750 XP HOME(CH)	●	●	●	●	●
-	2-024-872-31	& HW SPECS 2750 XP HOME(BE,CH,FR)	●	●	●	●	●
-	2-024-872-41	& HW SPECS 2750 XP HOME(IT,CH)	●	●	●	●	●
-	2-024-872-51	& HW SPECS 2750 XP HOME(SE)	●	●	●	●	●
-	2-024-872-61	& HW SPECS 2750 XP HOME(NL,BE)	●	●	●	●	●
-	2-025-289-11	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-21	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-31	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-41	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-51	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-61	& HW SPECS 2750 XP PRO	●	●	●	●	●
-	2-025-289-71	& HW SPECS 2750 XP PRO	●	●	●	●	●

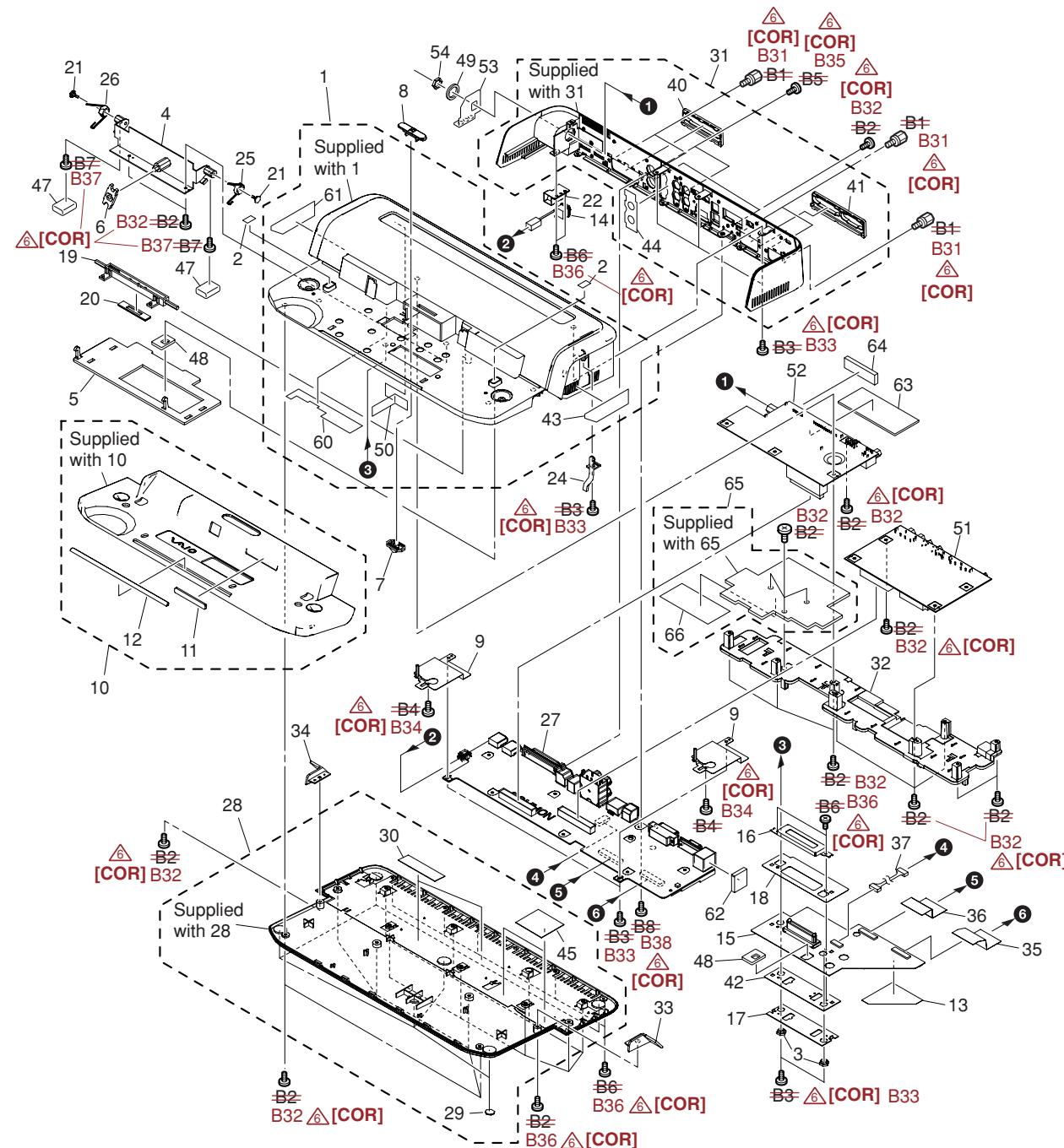
△[MA] ●1) The Ref.2005,2009,2010,2011,2020,2023 are included only in the models supplied with the Port Replicator.

△[MA] ●1) Ref.2005,2009,2010,2011,2020,2023 は、Port Replicator 同梱機種のみについてきます。

• This model that is accompanied by asterisk (*) is the CTO model.

• 機種名に(*)がつくのは CTO モデルです。

A-2. Accessories



A-2. Accessories

Ref.No.	Part No.	Description
1	X-4626-667-1	SUB HOUSING UPPER BPR ASSY
2	4-682-689-01	BPR MYLAR FOOT
3	4-682-693-01	BPR CAP BOSS DOCK CONN
4	4-682-694-01	BPR BRACKET ARM TRAY
5	4-682-695-01	BPR HOOK FRONT
6	4-682-697-01	BPR ARM SLIDE HOOK YOKO
7	4-682-698-01	BPR KNOB HOOK RELEASE
8	4-682-699-01	BPR KNOB HOOK RELEASE BOTTON
9	4-682-700-01	BPR PIN GND
10	X-4626-672-1	SUB HOUSING TRAY BPR ASSY
11	4-682-721-01	& BPR CUSHION REAR
12	4-682-720-01	& BPR CUSHION FRONT
13	2-048-435-01	BPR MYLAR FPC
14	A-1058-415-A	HARNESS, DC
15	A-1059-670-A	COMPLETE PWB CNX-271
16	4-682-690-01	BPR PLATE DOCK CONN UPPER
17	4-682-691-01	BPR PLATE DOCK CONN BOTTOM
18	2-048-436-01	BPR MYLAR SHIELDING
19	X-2021-564-1	BPR ASSYSUB CAM SLIDE HOOK
20	2-048-437-01	BPR SPONGE CAM SLIDE HOOK
21	4-682-709-01	BPR ARM TRAY PIN
22	4-682-712-01	BPR BRACKET DC
24	4-682-708-01	BPR LIGHT GUIDE LED
25	4-682-714-01	BPR SPRING TRAY R
26	4-682-715-01	BPR SPRING TRAY L
27	A-1059-661-A	COMPLETE PWB CNX-250A
28	X-4626-669-1	SUB HOUSING BOTTOM BPR ASSY
29	4-682-703-01	& BPR RUBBET FOOT
30	2-048-440-01	APR MYLAR B2B CONNECTOR
31	X-4626-673-1	SUB COVER IO AV1 APR1 ASSY
32	X-4626-671-1	SUB FRAME BPR ASSY
33	4-682-710-01	BPR COVER RIGHT HOUSING UPPER
34	4-682-711-01	BPR COVER LEFT HOUSING UPPER
35	A-1058-418-A	PWB (60P), FLEXIBLE PRINT A
36	A-1058-419-A	PWB (60P), FLEXIBLE PRINT B
37	A-1058-420-A	CABLE, ETHER
39	X-4626-675-1	SUB COVER IO RCA APR1 ASSY △[DEL]
40	4-682-728-01	APR COVER BRACKET D-SUB-1
41	4-682-729-01	APR COVER BRACKET D-SUB-2
42	2-048-439-01	BPR ENFORCE PLATE
43	2-103-312-01	MYLAR TOP SHIELD R
44	2-103-240-01	MYLAR RCA 1PIN
45	2-103-314-01	MYLAR 34x40
47	2-103-316-01	GASKET 7x10x2
48	2-103-317-01	MYLAR HOOK FRONT

Ref.No.	Part No.	Description
49	4-680-501-01	RF,CONN WASHER
50	2-103-318-01	APR FOIL AL 6x24
51	A-1059-668-A	COMPLETE PWB IFX-312
53	4-682-722-01	APR BRACKET TUNER
54	4-680-482-01	RF CONN,NUT
60	2-048-434-01	BPR MYLAR BRACKET ARM TRAY
61	2-103-313-01	BPR MYLAR TOP SHIELD L
62	2-148-338-01	BPR SPONGE USB 2 PORT
63	2-148-335-01	APR THERMAL PAD TUNER BIG
64	2-148-336-01	APR THERMAL PAD TUNER SIDE

△[MA]

Ref.No.	Part No.	Description	J	AM
52	A-1059-662-A	COMPLETE PWB ENX-29(J)	•	•
52	A-1059-667-A	COMPLETE PWB ENX-29(U)	•	•

A70P	A70S*	A70PS*	A80B	A60S*	A60PS*	A190	A170*	A170B*	A170P*	A130*	A130B*	A130D*
------	-------	--------	------	-------	--------	------	-------	--------	--------	-------	--------	--------

[MA] □ [MA] □

△[COR] B31 4-635-966-01

SCREW (HEX)

B31 4-635-966-21

B32 4-671-504-11

B33 3-905-376-01

B34 T2.6x6L(PW NI)

B35 4-639-112-31

B36 2-048-677-01

B37 4-641-726-21

B38 4-671-538-01

B39 4-635-301-11

B40 3-906-376-01

B41 SCREW (2.6X6)

B42 4-671-538-01

B43 SCREW (M2X4)

B44 2-103-677-01

B45 SCREW (M2X4), SPECIAL HEAD

B46 4-671-538-01

B47 SCREW(M2x4),SPECIAL HEAD

B48 4-635-301-11

B49 SCREW M3X4

B50 4-671-538-01

B51 SCREW, T3X8L, (I) B-NI

B52 2-103-677-01

B53 SCREW, T3X8L, (I) B-NI

B54 4-641-726-21

B55 4-671-538-01

B56 4-635-301-11

B57 4-671-538-01

B58 4-635-301-11

B59 4-671-538-01

B60 4-635-301-11

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B71 4-671-538-01

B72 4-635-301-11

B73 4-671-538-01

B74 4-635-301-11

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B171 4-671-538-01

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B196 4-671-538-01

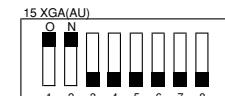
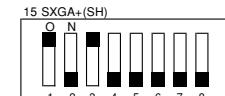
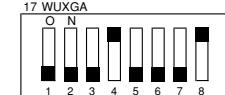
DIP Switch

The DIP switch setting is following table.

DIP スイッチの設定は下の表をご参照ください。

J	VGN-A70P O N 1 2 3 4 5 6 7 8	VGN-A60B O N 1 2 3 4 5 6 7 8	VGN-A50B O N 1 2 3 4 5 6 7 8
AM	△[MA] VGN-A190 O N 1 2 3 4 5 6 7 8		
EU	△[MA] VGN-A197XP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A17S O N 1 2 3 4 5 6 7 8	△[MA] VGN-A197VP O N 1 2 3 4 5 6 7 8
	VGN-A115S O N 1 2 3 4 5 6 7 8	VGN-A195HP O N 1 2 3 4 5 6 7 8	VGN-A115B O N 1 2 3 4 5 6 7 8
	VGN-A195EP O N 1 2 3 4 5 6 7 8		
AO	△[MA] VGN-A17GP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A15GP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A17LP O N 1 2 3 4 5 6 7 8
	△[MA] VGN-A15LP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A17SP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A17TP O N 1 2 3 4 5 6 7 8
	△[MA] VGN-A19CP O N 1 2 3 4 5 6 7 8	△[MA] VGN-A15CP O N 1 2 3 4 5 6 7 8	△[MA] VGA-A13CP O N 1 2 3 4 5 6 7 8
	△[MA] VGA-A11C O N 3 4 5 6 7 8		

[FOR CTO MODEL]



The DIP switch setting is different depending the types of LCD.

Set the DIP switch of the CTO model in accordance with the [FOR CTO MODEL].

DIP スイッチの設定は、LCD の種類によって異なります。

CTO モデルは、【FOR CTO MODEL】の表に従って DIP スイッチを設定してください。

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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)

VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

CHAPTER 5.

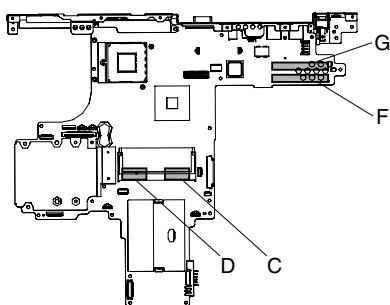
OTHERS

5-1. The barcode label

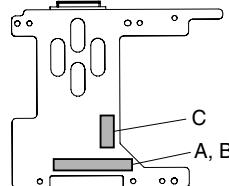
The hatched portion of the barcode label is used as the repair data.

バーコード ラベルの網掛け部は、修理データとして使用しています。

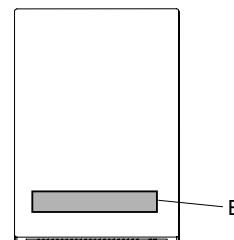
[MBX-110 Board] (Side A)



[IFX-335/IFX-324 Board] (Side B)



[HDD] (Made by Hi) (Bottom)



A : Parts No.

B : Serial No.

C : Revision No.

D : Product code

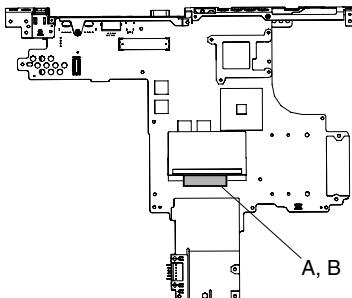
E : Maker Barcode

F : Global User ID (iLink)

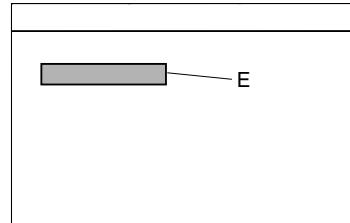
G : Mac Address

: Barcode

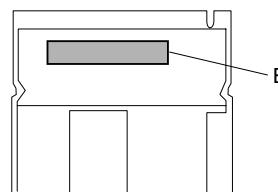
[MBX-110 Board] (Side B)



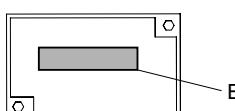
[LCD Unit] (Rear)



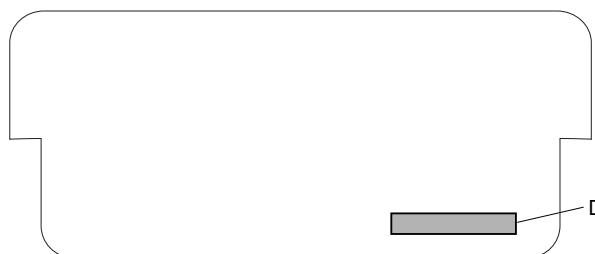
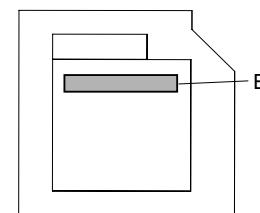
[Wireless LAN Card]



[Modem Card]



[Optical Drive] (Top)



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VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)

VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)

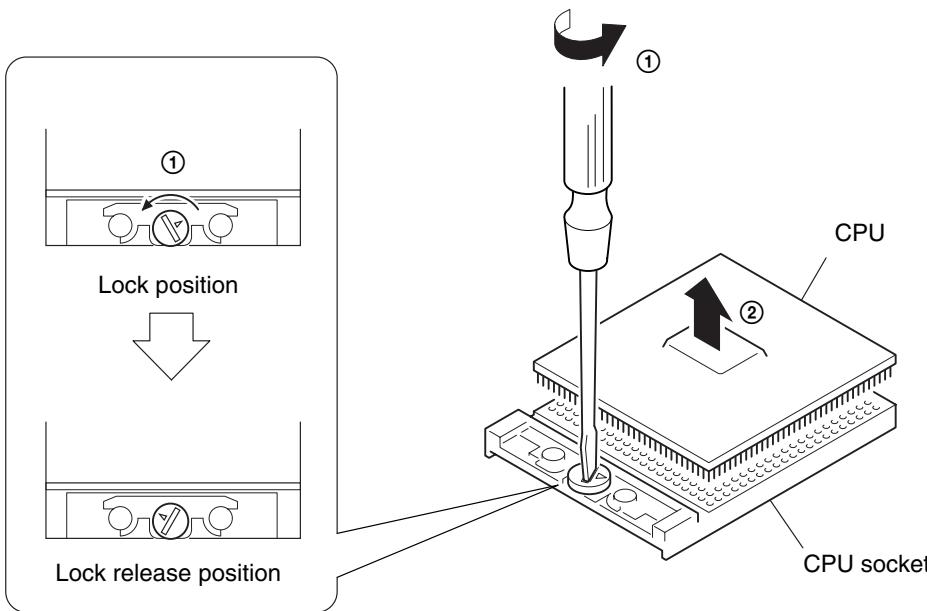
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)

VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

5-2. Replacing the CPU

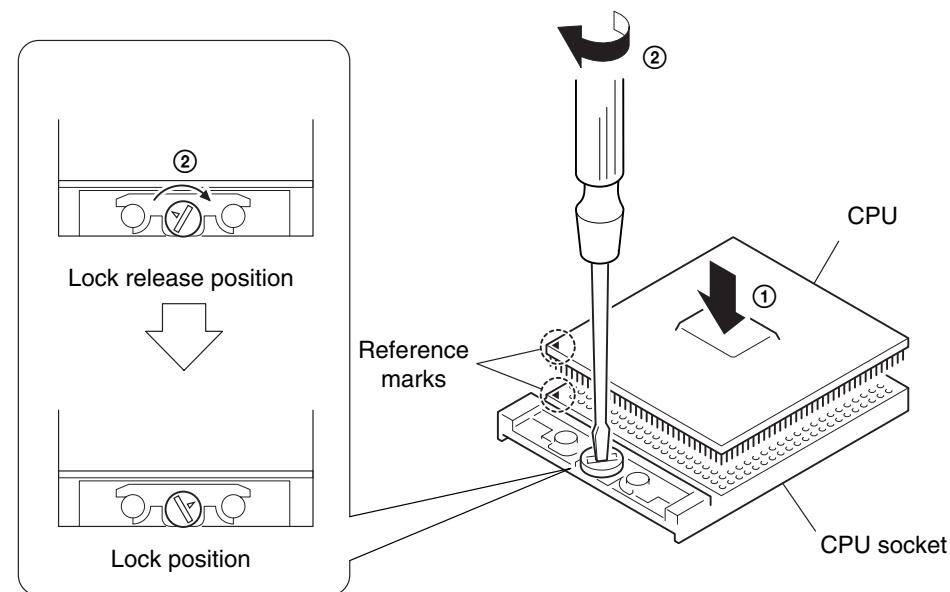
1. Removing the CPU

- ① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
- ② Pull the CPU gently upward to lift it out of the CPU socket.



2. Installing the CPU

- ① Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- ② While pressing the two positions marked by O, insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.



VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)

List of VGN-A Series (As of December, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-367-XX	VGN-A50B	VGN-A130*	VGN-A115B	VGN-A11C
	VGN-A60B	VGN-A130B*	VGN-A115S	VGN-A13CP
	VGN-A60PS*	VGN-A130P*	VGN-A117S	VGN-A15CP
	VGN-A60S*	VGN-A170*	VGN-A195EP	VGN-A15GP
	VGN-A70P	VGN-A170B*	VGN-A195HP	VGN-A15LP
	VGN-A70PS*	VGN-A170P*	VGN-A197VP	VGN-A17GP
	VGN-A70S*	VGN-A190	VGN-A197XP	VGN-A17LP VGN-A17SP VGN-A17TP VGN-A19CP

* : CTO Model

9-876-367-07

Sony Corporation

— 43 —

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English/Japanese

2004L1600-1

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2004.05.10	First Edition	
-02	Ver.2	2004.05.24	 Front Page (Model Line Up), Page 3, Page 1-1, Page 1-4_5, Page 3-1, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-11, Page 4-13_4-15, Page 4-17, Page 4-19, Page 4-21, Page 4-23_4-24, Page 4-27, Back Cover	N2004_056AK
-03	Ver.3	2004.06.04	 Page 4-9, Page 4-11, Page 4-22, Page 4-26	N2004_057CK
-04	Ver.4	2004.06.14	 Front Page (Model Line Up), Page 1-1, Page 4-1, Page 4-5, Page 4-9, Page 4-13, Page 4-17, Page 4-21, Page 4-23_4-24, Page 4-27, Back Cover	N2004_061AK
-05	Ver.5	2004.07.06	 Front Page (Model Line Up), Page 3, Page 1-1, Page 1-6, Page 3-1, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-11, Page 4-13, Page 4-15, Page 4-17, Page 4-19, Page 4-21, Page 4-23_4-24, Page 4-26, Page 4-27, Back Cover	N2004_071AK
-06	Ver.6	2004.07.06	 Page 4-10_4-13, Page 4-17_4-19	N2004_075CK
-07	Ver.7	2004.12.06	 Front Page, Page 4-2_4-5, Page 4-14_4-15, Page 4-19, Page 4-21, Page 4-23, Page 4-25_4-26, Back Cover	N2004_136CK
			< Remarks >	

[Confidential]

VGN-A50B/A60B/A60PS/A60S/A70P/A70PS/A70S (J)
VGN-A130/A130B/A130P/A170/A170B/A170P/A190 (AM)
VGN-A115B/A115S/A117S/A195EP/A195HP/A197VP/A197XP (EU)
VGN-A11C/A13CP/A15CP/A15GP/A15LP/A17GP/A17LP/A17SP/A17TP/A19CP (AO)